telerik

INSTALLATION GUIDE FOR V3.6

| Last Update : May 2009 |

Contents

1. System Requirements 5

2. Licensing 5

Setting the License Key 6
Copyright Message 8
License Agreement 9

3. Introduction to Installing and Deploying Sitefinity 16

Development Machine and Production Server 16
Which File Do I Download? 17
Installation Packages 19

4. Installing Sitefinity under Windows Server 2008 21

Creating the Database 21
Automatic Installation 22
Manual Installation 29

5. Installing Sitefinity under Windows Vista 34

Creating the Database 34
Automatic Installation 34
Manual Installation 34

6. Installing Sitefinity under Windows XP 35

Creating the Database 35
Automatic Installation 37
Manual Installation 37

7. Installing Sitefinity on Windows Server 2003 40

8. Installing Sitefinity in a Shared Hosting Environment 40

License Keys 40
Creating the Site 40
Preparing and Copying the Files 41
Attaching your Database 42
Web.Config 42

9. Installing Sitefinity in a Location Other Than Default Website 45

10. Deploying Sitefinity in a Load Balanced Environment 46

11. Getting Started with the Sample Site 48

12. Upgrading Sitefinity Projects 49

Overview 49
Upgrading Projects to Sitefinity 3.6 49
Upgrading Projects Created with Sitefinity Community to Standard Edition 50
Upgrading from Sitefinity Trial to Standard Commercial License 50
Downgrading to the Community Edition or a Previous Version of Sitefinity 51
Upgrading to the latest version of RadControls for ASP.NET AJAX 51
Upgrading Control Templates 52

13. Migrating the Database 54

Migrating an SQL Database 54
Copying the SQL Database to the Destination Server 54
Setting the SQL Connection String 59
Migrating the Sitefinity Database from SQL Server 2005 to SQL Server 2000 60
Upgrading the Sitefinity Database from SQL Server 2000 to SQL Server 2005 64

14. Configuring IIS 64

Extensionless URLs 64
IIS 5.x 64
IIS 6.x 65
IIS 7.0 66
Wildcard Application Mappings 67
IIS 5.x 67
IIS 6.x 68
IIS 7 69

15. Configuring Localization 71

Overview 71
Site Localization 71
Mapping Domain Name and Extension to Culture 72
Module Localization 74

16. Configuring Workflow and Versioning 77

Page Level 77
Module Level 77
Page History 77
Module History 78

17. Troubleshooting 80

Login Failed for User 80
You are Running a Trial Version of Sitefinity 80
Unknown server tag 'sfBlogDesignSettings:BehaviorSetting' warning while compiling/building your project 80
"Unable to load one or more of the requested types. Retrieve the LoaderExceptionsProperty for more information." 81

1. System Requirements

Server-side Requirements
Microsoft® Windows Server 2000, 2003, 2008, Windows XP Professional, Windows Vista Internet Information Services 5.1+ Microsoft® .Net Framework v2.0, v 3.5 for the 3.5 build of Sitefinity

Database Platforms
Microsoft® SQL Server 2000 Microsoft® SQL Server 2005 Microsoft® SQL Server 2008 Microsoft® SQL Express MySQL Oracle 10+

Supported Browsers
For a complete list with versions, please visit our system requirements page. *JavaScript must be enabled on all browsers.*

2. Licensing

Setting the License Key

1. Sitefinity Standard Edition Commercial License

Intended for professional developers, the Standard Edition Commercial License allows you to generate one license key for the top level domain/server name. You do not need a license key to deploy the software on your testing and development servers; you can access the test application by IP address or http://localhost and will not receive copyright messages.

If you have several domain names pointing to the same Web site, you do not need to purchase separate licenses. Consider the two cases below:

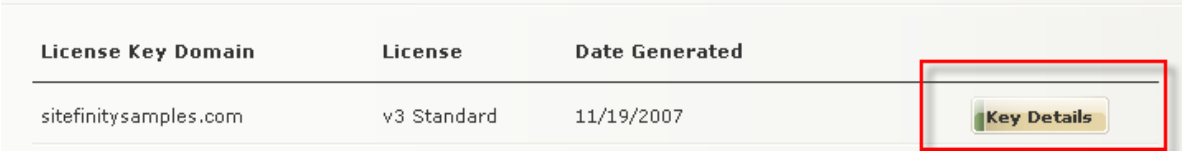
a. **Domain Alias**
This is a domain name that points to another primary domain. For example, if the primary domain name is "original.com" and a Domain Alias is registered for "alias.com", then “http://www.original.com” and “http://www.alias.com” will take visitors to the exact same pages of the “original.com” Web site. Furthermore, “http://original.com/somefile.html” will bring visitors to the exact same page as “http://alias.com/somefile.html”.

b. **Domain Forwarding (URL Redirect)**
Domain forwarding allows redirection of Web requests for the parked domain name to content hosted on a different server. In the case of domain forwarding, when a visitor attempts to access the forwarded domain, the Web browser automatically redirects to the specified Web site.

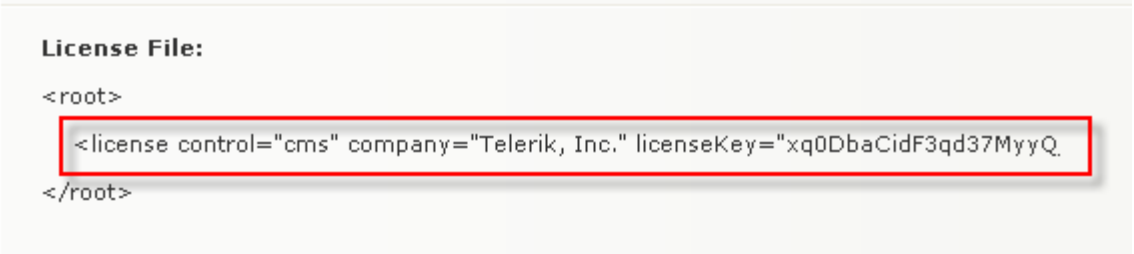
In the case of domain aliases, please contact sales@telerik.com and a sales representative will send you the **Annex to Sitefinity EULA.** You will need to sign and return this form, either by fax it to (617) 249 2116 (for U.S.) or e-mail it to sales@telerik.com together with your list of domain aliases. A sales representative shall activate these keys for you and our system shall send you an e-mail with the new keys.

To insert a domain license key into Sitefinity, follow these steps:

1. Login to your Client.net account
2. Click on licenses
3. Next to your domain alias, click key details:



4. Copy the code in between the root tags



5. In your Sitefinity project, open this file: ~/Sitefinity/LicenseFile.xml
6. In between the <root> elements, insert the license key code you copied from step 4

If you have for three licensed domain aliases, for example, your license file could look like this:

```
<root>
 <license control="cms" company="xxx" licenseKey="..." />
 <license control="cms" company="domain alias for x" licenseKey="..." />
 <license control="cms" company="domain alias for x" licenseKey="..." />
 <license control="cms" company="domain alias for x" licenseKey="..." />
</root>
```

In the case of domain forwarding, it is sufficient to generate the Sitefinity license key for the primary domain name only.

To generate a license key:

1. Sign in to your Client.net account.
2. In the left pane, click **Licenses**.
3. Click generate key as shown below:

4. On the next screen, enter in your domain. Exclude the http://www. part. So, if your domain is http://www.telerik.com, enter in telerik.com .

A license key shall be e-mailed to you, once these steps are complete. Put that file, called LicenseFile.xml, in the ~/Sitefinity folder of your application.

Copyright Message

To remove the copyright messages on the production server, save the **LicenseFile.xml** file in the **~/[YourWebsite]/Sitefinity** folder and restart the application. Restarting the application can be done by following these steps:

For Windows Vista and Windows Server 2008:

1. Click **Start** and in the search box, type in cmd
2. Type in IISReset

For Windows XP and Windows Server 2003

1. Click **Start > Run**
2. Type in IISReset

This will restart IIS. This will clear your cache because it stops the ASP.NET Worker Process that holds all caching information. Now, visit your website again and the message will disappear. For step by step instructions on how to protect this file from being downloaded, please refer to this article.

2. Sitefinity Standard Edition Trial License

The Standard Edition Trial License allows you to install, copy and use Sitefinity for evaluation and testing purposes. This is a fully functional installation and works for unlimited time

without a license key. Although a trial message will not appear on an IP address or http://localhost , copyright messages will appear once the system has a DNS address, such as www.telerik.com and etc. Once a license key is purchased and placed inside the Sitefinity folder,, these messages are disabled.

3. Sitefinity Community Edition License

Intended for hobbyists, the Sitefinity Community Edition License is a scaled-down version of the Standard Edition and will work for unlimited time without displaying any copyright messages. The product is free of charge and can be deployed on any server without any license keys.

The only requirement for Web sites developed with the Sitefinity Community edition is that the "Powered by Sitefinity" logo is displayed in the footer of every page. To download these logos, please visit our website.

To change the style of the "Powered by Sitefinity" logo, follow these steps:

1. Open the project's **web.config** file.
2. In the section **cms defaultProvider="Sitefinity"** add the attribute **communityLogo.**
3. Set its value to any of the available styles: **Original**, **Dark** or **Light**.

To illustrate, this is what the **web.config** file should contain if you want to set a **Dark** style for the logo:

```
<cms defaultProvider="Sitefinity" pageExtension=".aspx"
pageEditorUIMode="Overlay" disabled="true"
communityLogo="Dark">
```

For more information about the Community Edition, please visit our website.

License Agreement

For an online copy of our Sitefinity license agreement, please visit our license agreement page.

Telerik Sitefinity Content Management System

End-User License Agreement

By downloading and installing the product identified above and/or its related materials, you are accepting the following License Agreement. Check the box "I have read and agree to the License Agreement" if you agree.

IMPORTANT – READ CAREFULLY: This license agreement (“LICENSE”) is a legal agreement between you (either an individual or a single entity, also referred to as "LICENSEE", "YOU") and Telerik Corp., ("Telerik"), for the product "Telerik Sitefinity" which includes computer software, associated media, printed materials, and "online" or electronic documentation (collectively referred to as “SOFTWARE”).

By installing, copying, downloading, accessing, or otherwise using the SOFTWARE, you agree to be bound by the terms of this LICENSE. If you do not agree to the terms of this LICENSE, do not buy, install or use the SOFTWARE.
Any earlier LICENSE we may have granted to you for the use of earlier versions of the SOFTWARE is replaced by this LICENSE.

DEFINITIONS

• **CMS User/User seat** - an individual user who has access to the administrative (content management) capabilities of the SOFTWARE through a unique username and password.
• **Site visitor** - an individual who can access only the public (published) part of web-sites, created with the SOFTWARE. Such users do not have username and password for access to the administrative capabilities of the SOFTWARE. None of the Sitefinity LICENSES impose any limitation on the number of Site visitors.
• **Support Incident** - A support incident is defined as a single support issue with the SOFTWARE and the reasonable effort required for resolving it. A single support incident is a support problem, which cannot be broken down into secondary issues. A single support incident may involve several e-mails and offline work in order to be resolved. The Customer needs to provide Telerik with detailed information about the problem encountered. Even though Telerik Support Engineers will make reasonable efforts to resolve the issue, Telerik does not guarantee that all problems will be resolved. All bug reports and product feature suggestions are not considered support incidents.
• **Development Machine** - a computer used for custom development, staging, or testing of the SOFTWARE, before it is deployed on the Production Server.
• **Production Server** – a computer used for the final deployment of the SOFTWARE.

SOFTWARE PRODUCT LICENSE

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1. GRANT OF LICENSE

Telerik hereby grants to you, and you accept, a LICENSE to install, copy, and use the SOFTWARE only as authorized below.

(a) Standard Edition Commercial License:

• The Sitefinity Standard LICENSE allows you to use the SOFTWARE for 1 (one) top level domain name (or server name). There is no limitation to the number of subdomains (i.e. by registering a key for mysite.com, you will be able to use it for all subdomains - www.mysite.com, http://support.mysite.com, http://mysite.com, etc.).
• To facilitate the development process, Telerik allows you to deploy the SOFTWARE on your testing and development servers and access your applications via the IP address(es).
• There is no limitation to the number of CMS User accounts.
• Included Support: Telerik guarantees response within 48 hours to your support inquiries. As part of your LICENSE you are entitled to receive unlimited number of support incidents.

(b) Standard Edition Trial License:

• You are granted a LICENSE for evaluation purposes only. You are authorized to install, copy, and use the SOFTWARE for the sole purpose of testing its functionality. You are not allowed to use it for any commercial purpose.
• The Sitefinity Trial LICENSE is perpetual and works without license keys. The Trial LICENSE displays a random trial message that will be disabled once you purchase a license for the Standard Edition Commercial License and create a license key for your domain.
• There is no limitation to the number of CMS User accounts.
• Included Support: Telerik guarantees response within 72 hours to your support inquiries. As part of your LICENSE you are entitled to receive technical support for up to 5 support incidents.

(c) Community Edition License:

• The Sitefinity Community LICENSE allows you to use the SOFTWARE for 1 (one) top level domain name (or server name). There is no limitation to the number of subdomains (i.e. by registering a key for mysite.com, you will be able to use it for all subdomains - www.mysite.com, http://support.mysite.com, http://mysite.com, etc.).
• Telerik allows you to deploy the SOFTWARE on any testing, development or production server.
• Included Support: This LICENSE entitles you to Community support only. You can submit inquiries via the Sitefinity Forums where other members of the community will be able to provide answers. The Forum is available to all Client.net account holders. Even though we actively monitor and answer posts, the Forum's main purpose is to offer convenient peer-to-peer assistance and we do not guarantee a reply to all threads.
• Telerik requires the display of the “Powered by Sitefinity” logo on all pages that use the Sitefinity Community version.

• The Sitefinity Community LICENSE can be used for both personal and commercial websites.

2. DESCRIPTION OF OTHER RIGHTS AND LIMITATIONS

(a) You are not allowed to use the SOFTWARE as a whole, or any of its comprising elements, as a basis for creation of another software product.

(b) You are not allowed to use individually the software components comprising the SOFTWARE, but only as an integral part of the SOFTWARE.

(c) You are not allowed to disassemble, decompile or "unlock", decode or otherwise reverse translate or engineer, or attempt in any manner to reconstruct or discover any source code or underlying algorithms of the SOFTWARE provided in object code form only.

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(f) You agree to indemnify, hold harmless, and defend Telerik and its resellers from and against any and all claims or lawsuits including attorney's fees that arise or result from the use or distribution of your software product.

(g) Independent software vendors involved in the development, maintenance and publication of .NET components are not allowed to use the SOFTWARE without the express permission of Telerik.

3. DELIVERY

Telerik shall deliver to LICENSEE a master copy of the SOFTWARE licensed hereunder in compiled C# code in electronic files only. Documentation shall also be provided in electronic format.

4. UPGRADES

The Standard Edition Commercial LICENSE entitles the LICENSEE to receive all version updates, patches, and bug-fixes released for a period of 1 (one) year after the day of purchase. SOFTWARE labeled as an upgrade replaces and/or supplements (and may disable) the product that formed the basis for your eligibility for the upgrade. You may use the resulting upgraded product only in accordance with the terms of this LICENSE.

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(b) “Nolics.net 2005” - productivity tool developed by “Nolics”

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3. Introduction to Installing and Deploying Sitefinity

Development Machine and Production Server

Installation and deployment on a local development machine is strongly recommended for evaluation and development purposes. This scenario gives you the following advantages:

- You can access the application through **http://localhost** or an IP address immediately after installation without the need to apply any license keys.
- You can use the generated Visual Studio .NET project for development.
- You can deploy the complete or "in-development" Sitefinity project on the production Web server at any time.

The Sitefinity installer tries to create its virtual folders in the default IIS site, "Default Web Site". If that site is stopped or does not exist, the installation will fail in creating the virtual directories.

If you do not want to install Sitefinity under the Default Web Site, follow the instructions in this KB article: Installation in a location different from Default Web Site

There are some disadvantages to installing Sitefinity directly on the production Web server and here are a few:

- Trial messages will be displayed until you apply the Sitefinity license key.
- Development of custom controls is less convenient as you are not able to test them locally.
- You have to secure the access to the Sitefinity Project Manager through IIS, otherwise it could be accessed by unauthorized users through URL. An alternative is to remove the Project Manager from the Web server once your project is created.

To install Sitefinity on the production server, you have to run the distribution file as administrator. Once complete, the wizard will install the application in **\Program Files\telerik\Sitefinity3.x** by default.

The development machine should have a local copy of Sitefinity, which can be installed using the auto-installer, with a separate database from the one on the production server. This local Sitefinity copy should be used for custom modules, such as user controls, creation of master pages and themes, and customizations on existing modules, such as adding additional fields.

Content is not added to this version of Sitefinity because that should be added to the production server.

The production machine should have all of the files that were transferred from the development machine. This server has another different copy of the Sitefinity database. Content, such as pages and media such as images and documents, are added to this copy of Sitefinity. That's because Sitefinity has workflow, so you can save pages, send them for approval and later publish them. Any new tables created on the development machine's copy of Sitefinity should be run on this database too.

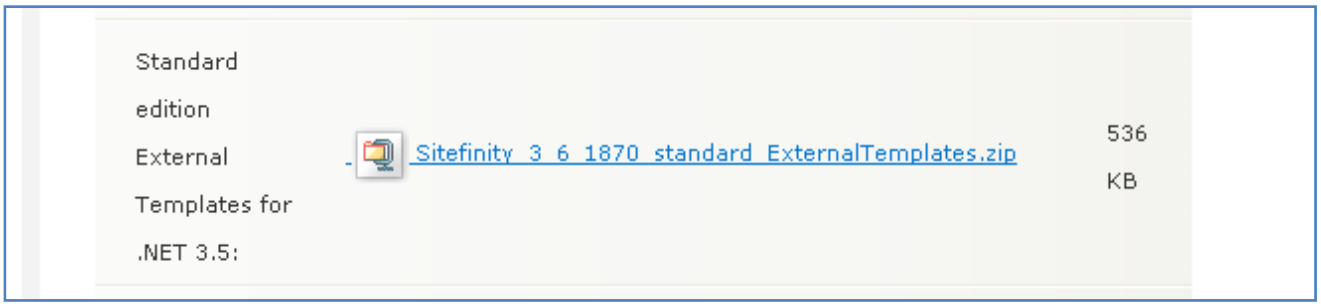
Which File Do I Download?

To access the Sitefinity downloads page, follow these steps:

1. Sign in to your Client.net account.
2. In the left pane, click **Downloads**.

If you are using .NET 3.5, (.NET 2.0 files have similar names) you will see these files:

Standard edition for .NET 3.5:	Sitefinity_3_6_1870_standard.exe	115 MB
Standard edition project for .NET 3.5:	Sitefinity_3_6_1870_standard_BlankProject.zip	16 MB
Standard edition patch for .NET 3.5:	Sitefinity_3_6_1870_standard_patch.zip	16 MB
Community edition for .NET 3.5:	Sitefinity_3_6_1870_community.exe	115 MB
Community edition project for .NET 3.5:	Sitefinity_3_6_1870_community_BlankProject.zip	16 MB
Community edition patch for .NET 3.5:	Sitefinity_3_6_1870_community_patch.zip	16 MB



Installation Packages

Each installation package comes in two types:

- **EXE** file for automatic installation
  The **EXE** file is intended for easy and automatic installation of Sitefinity. It installs the software on your computer in *C:\Program Files\Telerik,\Sitefinity3.6* and automatically creates the necessary Virtual Directories using the Project Manager. **If the auto installer fails, then you may install Sitefinity manually.** The EXE installation will not overwrite the previous Sitefinity installation, unless it is of the same version. Using the EXE file, you will have the option of creating the TIU sample site, which is a sample site using Sitefinity and available on our demo page.

- **ZIP** file (a.k.a. **patch**) for upgrading projects to a newer version
  This is the bare-bones manual upgrade option. By applying the patch, you will keep your existing Sitefinity installation, as this archive contains only two folders:
  - **Bin** folder - contains the .dll files;
  - **Sitefinity** folder - contains the files that make up the public controls' interfaces and their templates, as well as the administrative part of Sitefinity.
  - **new_web.config -** contains the changes introduced with the particular release version.

- **Blank Project.zip** is for a manual installation. You do not need the auto installer or any other files, since the Project Manager just unzips this file and makes a Virtual Directory out of it. This may be unzipped into a directory of your choice and made into a Virtual Directory. Once this is complete, you will be prompted for a database connection and to create an administrative user. For more info, please read **installing Sitefinity manually**.

The EXE and ZIP packages have all updates applied, so there is no need to update them

further.

In other words, if you have downloaded the **SiteFinity_3_5_SP1_standard.exe**, you should not download and apply the **SiteFinity_3_5_SP1_standard_patch_xxxx.zip**.

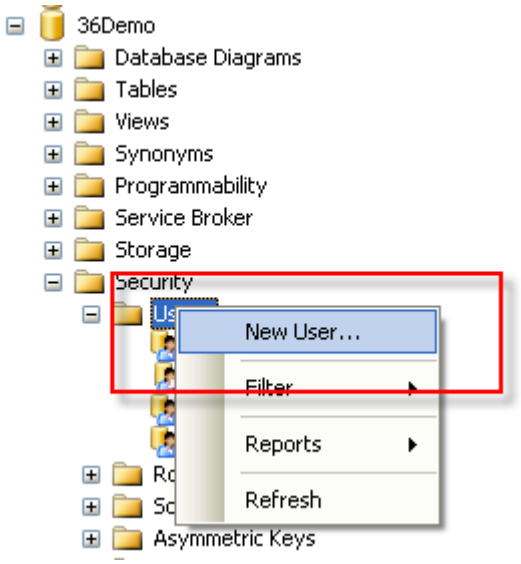
4. Installing Sitefinity under Windows Server 2008

These installation instructions discuss an automatic and a manual installation on Windows Server 2008 64bit using .NET 3.5, Sitefinity 3.6 hot fix, and SQL Server 2008. **If the auto installer fails, then you may install Sitefinity manually.**

Creating the Database

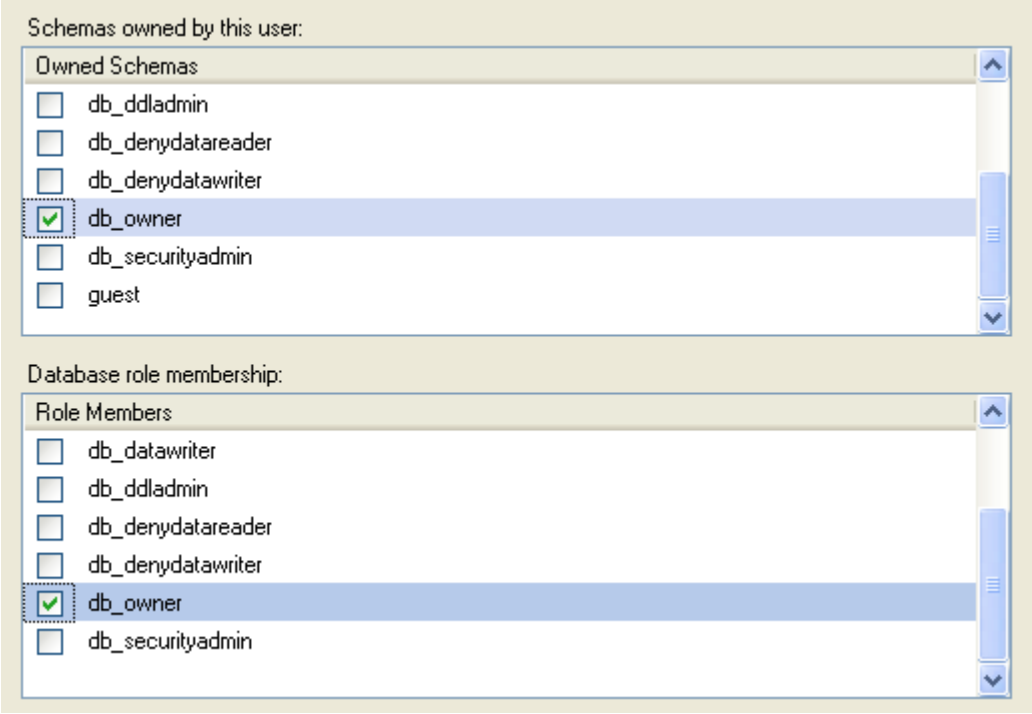
All of Sitefinity's content is stored inside the database, so there is no file structure. Although you can use SQL Express and Sitefinity could put that database in your App_Data folder, it's highly recommended that you create a database on your server and use that one. This will ensure you can run scripts on the database easier. To create a database, follow these steps:

1. Go to Start > All Programs > Microsoft SQL Server 2008 > SQL Server Management Studio 2008
2. Right click on that icon and left click **Run as Administrator**
3. On the login screen that appears, enter the appropriate credentials and click **Connect**. If you do not know this info, talk to your system administrator
4. Right click on the databases folder and click **New Database**
5. Enter in a name for the database, such as 36Test
6. In the SQL Server Management Studio, go to **Database > Security > Users > Create a New User** as shown below:



7. Give the user a name, such as NTSystem
8. On the dialog that appears, click on the ellipsis next to login box
9. On the next dialog, click browse

10. You now need to add two users with full permissions on the database, so Sitefinity can login and perform read and write operations. Choose the checkbox for NT/System and role (this is when NT Authority is selected for Data Base connection step during installation. If you use SQL Server credentials for the database connection, a role with these credentials must be specified. For more info, please contact your system administrator)
11. Choose the **db_Owner** Schema and the **db_Owner** database role membership as shown below:



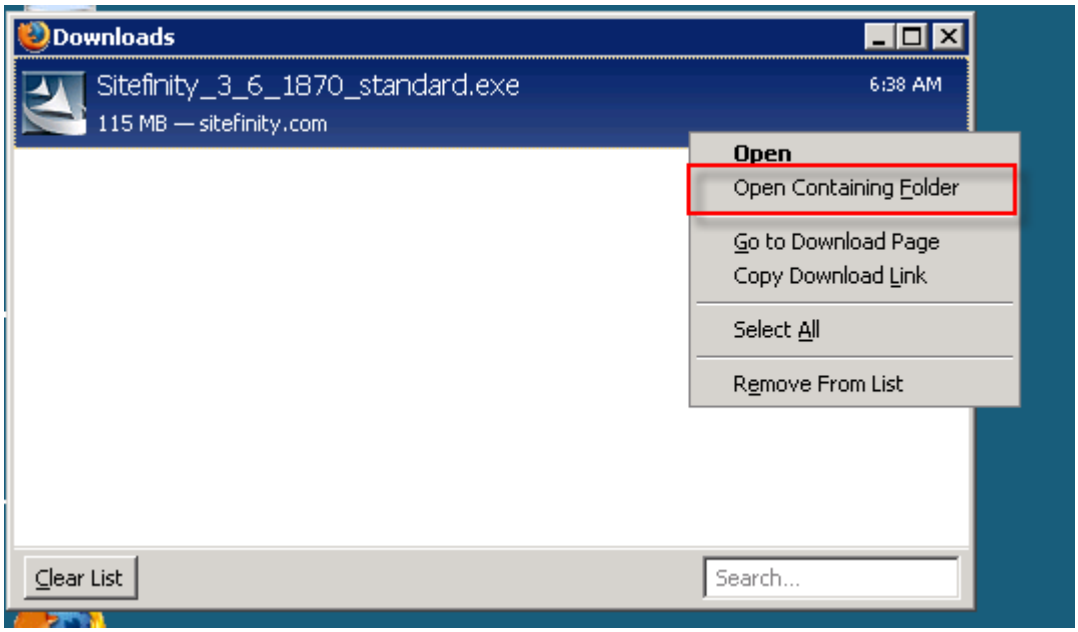
12. Perform steps 7-11 above, except give the user a new name for step 7 (such as NTServiceNetwork) and for step 9 choose the NT/Service Network role
13. Click OK.

Automatic Installation

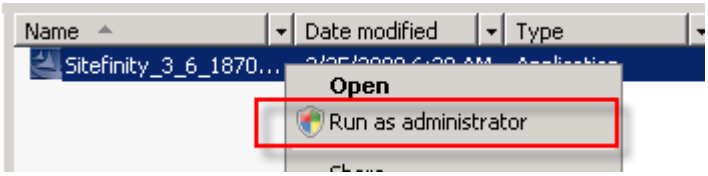
You must have Default Website in your IIS or else the Auto-Installer will fail. To install in a location other than Default Website, please read that section of the manual. To use the auto-installer, follow these steps:

1. Login to your Client.net account
2. On the left hand side of the screen, click downloads
3. Download the auto-installer as shown below:

4. On the next screen, click save file
5. When the download has been completed, right click on it and click **Open Containing Folder** as shown below:

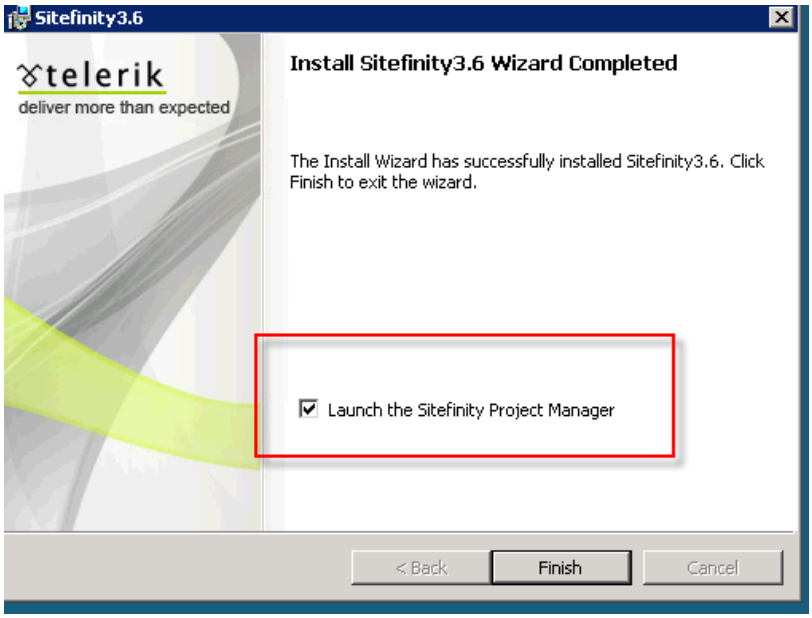


6. If User Account Control is on, right click on the installer and click **Run as Administrator** as shown below:



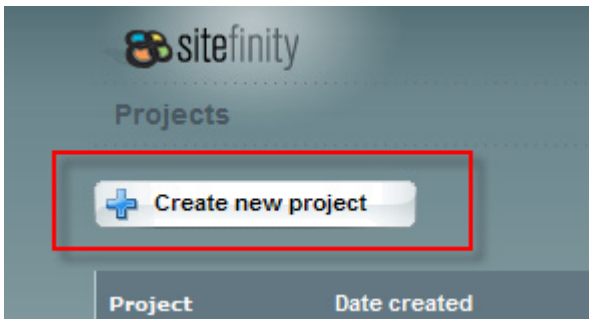
7. If User Account Control is off, just double click on the installer
8. On the next dialog that pops up, click **Continue**
9. On the User Account Control dialog that may appear next, provided User Account Control is turned on, click **Allow**

10. On the Welcome to the Install Wizard screen, click **Next**
11. On the next screen, accept the EULA and click **Next**
12. On the next screen, click **Next** to install Sitefinity in the C:\Program Files(x86)\telerik\Sitefinity3.6\ directory
13. On the next screen, click **Next** to perform a complete installation
14. On the next screen, click **Install**
15. Once the installation is complete, check the box that asks to start the project manager and click finish:

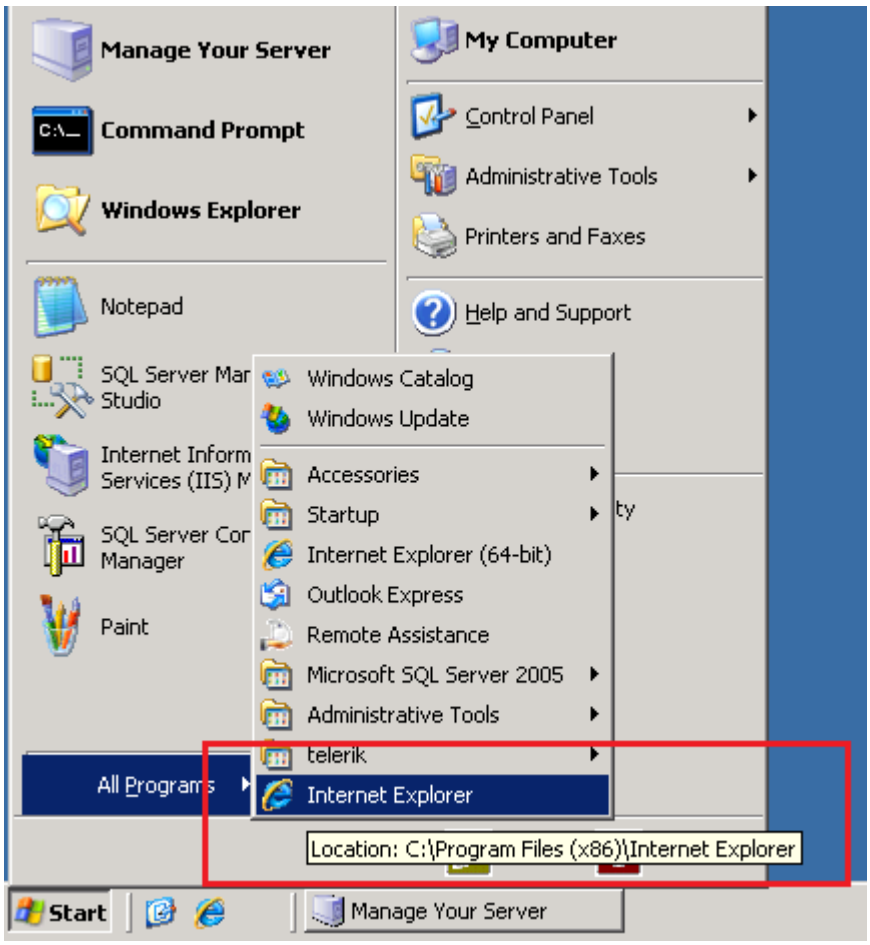


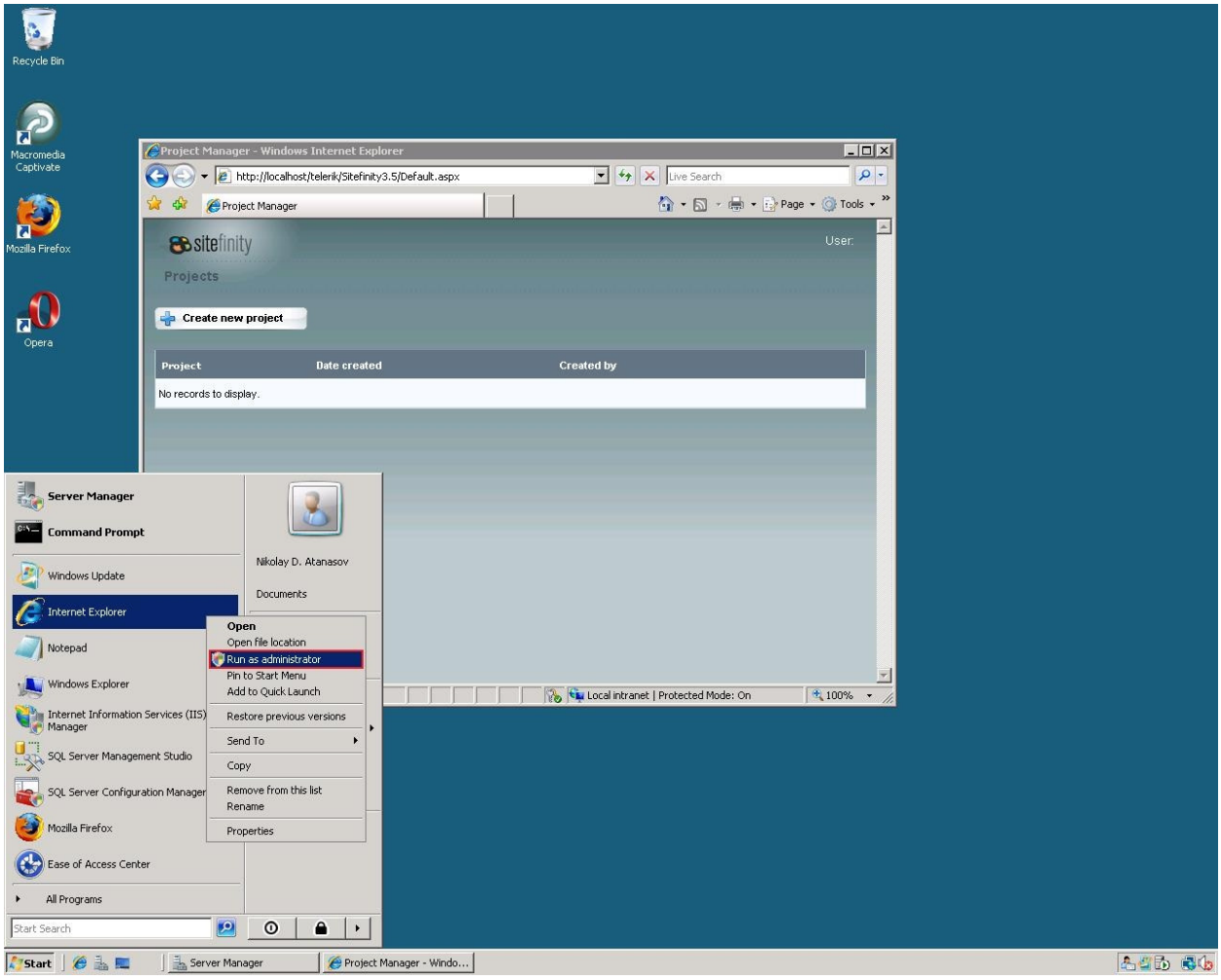
Sitefinity's project manager creates the blank website itself by following these steps:

16. On the Project Manager screen, click on **Create new project** as shown below:

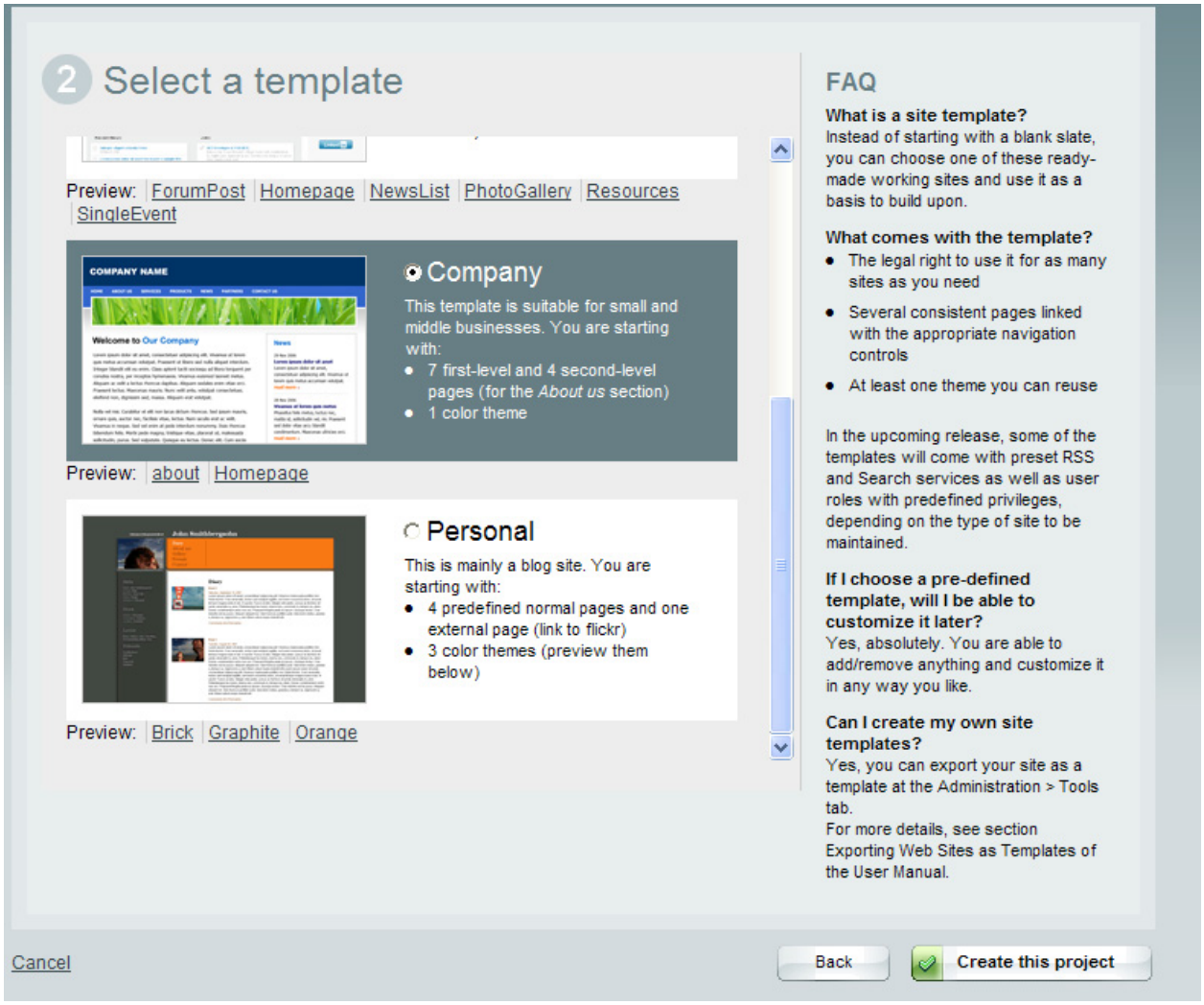


If you're using Internet Explorer, you must run the 32 bit version of it as an administrator as shown below:





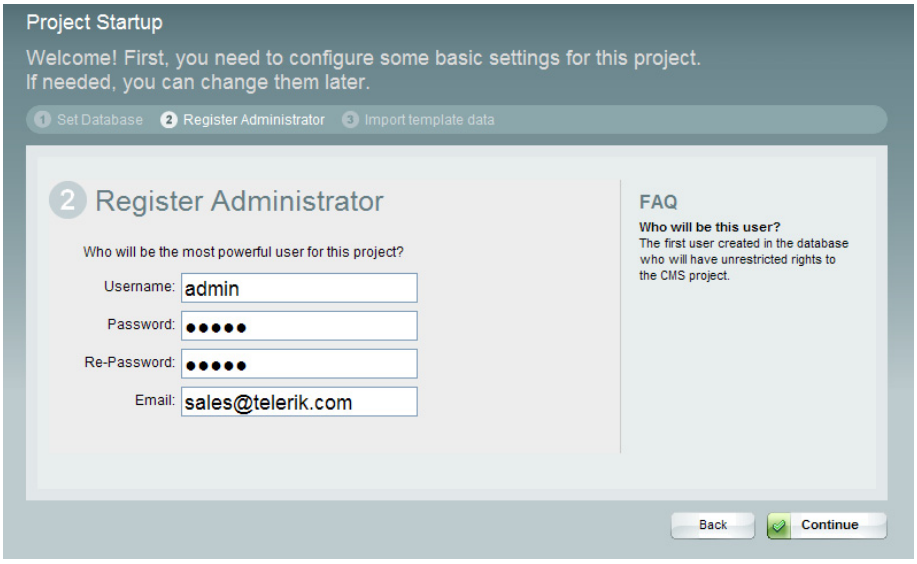
17. Enter in a new name of your choosing, such as 36Test, for the site and click next
18. Select a template for the site and click **Create this Project** as shown below**:**


2 Select a template
Preview: ForumPost | Homepage | NewsList | PhotoGallery | Resources | SingleEvent
Company
This template is suitable for small and middle businesses. You are starting with:
7 first-level and 4 second-level pages (for the About us section)
1 color theme
Preview: about | Homepage
Personal
This is mainly a blog site. You are starting with:
4 predefined normal pages and one external page (link to flickr)
3 color themes (preview them below)
Preview: Brick | Graphite | Orange
FAQ
What is a site template?
Instead of starting with a blank slate, you can choose one of these ready-made working sites and use it as a basis to build upon.
What comes with the template?
The legal right to use it for as many sites as you need
Several consistent pages linked with the appropriate navigation controls
At least one theme you can reuse
In the upcoming release, some of the templates will come with preset RSS and Search services as well as user roles with predefined privileges, depending on the type of site to be maintained.
If I choose a pre-defined template, will I be able to customize it later?
Yes, absolutely. You are able to add/remove anything and customize it in any way you like.
Can I create my own site templates?
Yes, you can export your site as a template at the Administration > Tools tab.
For more details, see section Exporting Web Sites as Templates of the User Manual.
Cancel
Back
Create this project

19. After this is complete, you will see a screen that says the project has been created. Go to this URL in your browser: http://localhost/[Virtual_Directoy_Name]/Sitefinity/login.aspx or click **Go to administer your project**. Using 36Test as the site's name, you could navigate to http://localhost/36Test/Sitefinity/login.aspx
20. You will now see a screen asking for database credentials. Fill in the form and if you are unsure what they are, contact your system administrator. Here is what the form could possibly look like:

Note: If you receive an error saying login for user has failed, please read [this section of our guide](#).

21. Click **Continue**
22. Enter in a name for an admin on the next screen. This user will have unrestricted permissions throughout the CMS. When this is done, click **Continue** as shown below:


Project Startup
Welcome! First, you need to configure some basic settings for this project.
If needed, you can change them later.
1 Set Database
2 Register Administrator
3 Import template data
2 Register Administrator
Who will be the most powerful user for this project?
Username: admin
Password: •••••
Re-Password: •••••
Email: sales@telerik.com
FAQ
Who will be this user?
The first user created in the database who will have unrestricted rights to the CMS project.
Back
Continue

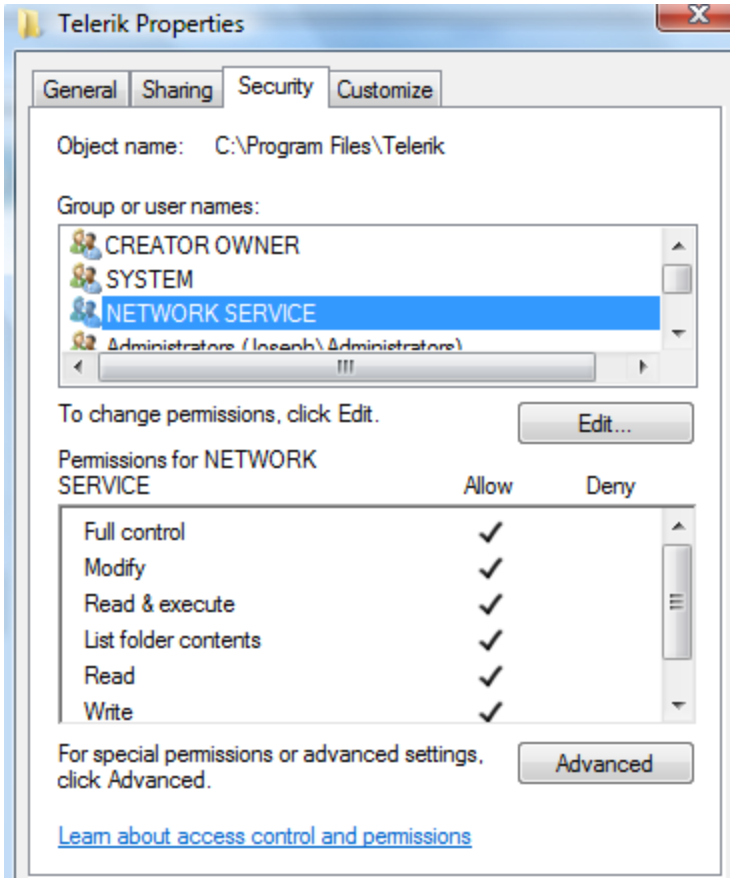
Once these steps are complete, you can now login to your Sitefinity site.

Manual Installation

Although Sitefinity offers an auto-installer, there are times when a manual installation is necessary. These include computers with complicated role-based security access control lists, which control a user's role ability to access certain resources on a computer. So that Sitefinity can be used on these systems, the CMS has a manual installation by following these steps:

1. Follow the steps from Creating the Database
2. Login to your Client.net account
3. On the left hand side of the screen, click on downloads
4. Download this file:

5. Create this directory: C:\Program Files\Telerik\Sitefinity3.6\Websites
6. Unzip the project in the directory listed in step 5
7. Ensure that the Telerik folder has the required Role-Based Permissions as shown below:



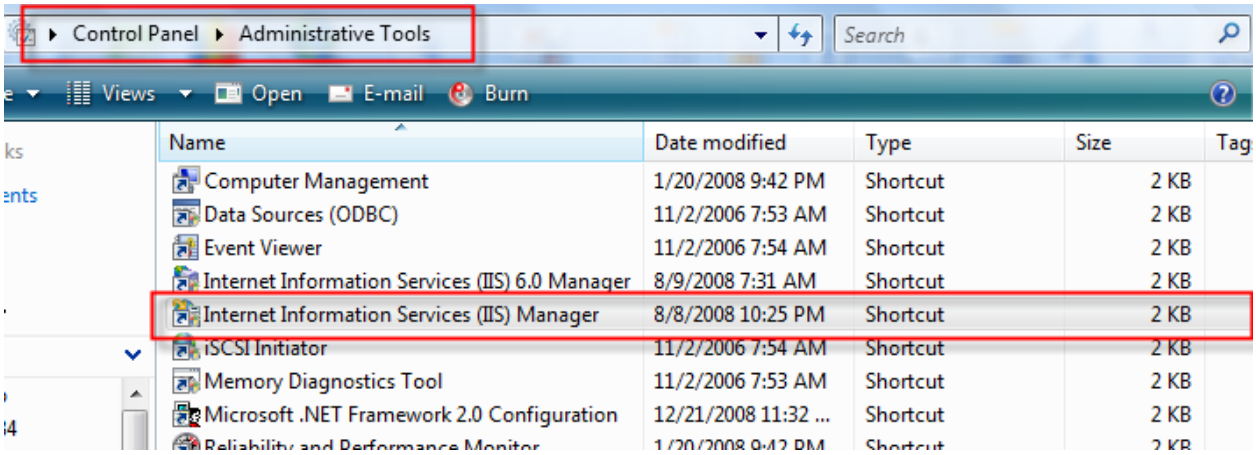
Since directories inherit access control lists, which are shown above, from their parent folder, everything in this directory will take permissions from the folder above it. In Windows Vista and Windows Server, the Network Service Account, which ASP.NET uses to access files in these operating systems, is the user account that needs access to all files in a directory.

If this account is not added to the list, you likely receive permission based errors that assemblies cannot be loaded or found, even though they exist in the proper folders. To add the Network Service account, follow these steps:

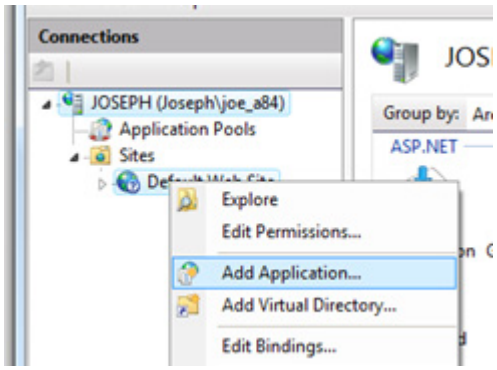
1. Right click on the Telerik folder as shown above
2. Click on the security tab
3. On the next screen, click edit
4. On the next screen, click add
5. On the next screen, click advanced
6. On the next screen, click find now
7. In the search results box, click Network Service
8. Using the screenshot in called Telerik properties above, check off all the boxes in that list

Now that the permissions are configured, you must make a Virtual Directory by following these steps:

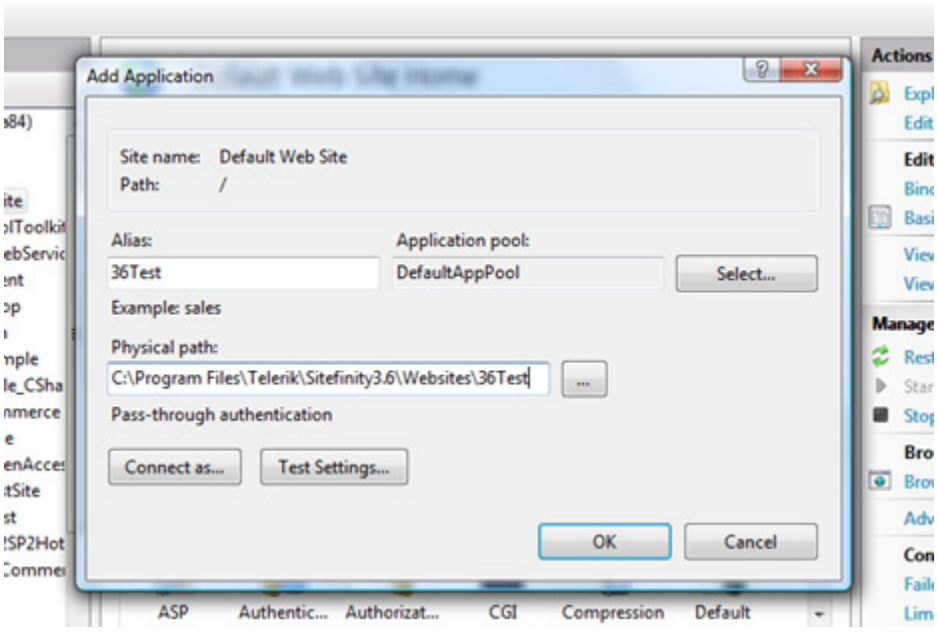
1. If you have not done so already, [install IIS 7 on your machine]
2. Go to Start > Control Panel (in classic view)> Administrative Tools > IIS Manager as shown below:


Control Panel ▸ Administrative Tools
Search
Views
Open
E-mail
Burn
Name
Date modified
Type
Size
Computer Management 1/20/2008 9:42 PM Shortcut 2 KB
Data Sources (ODBC) 11/2/2006 7:53 AM Shortcut 2 KB
Event Viewer 11/2/2006 7:54 AM Shortcut 2 KB
Internet Information Services (IIS) 6.0 Manager 8/9/2008 7:31 AM Shortcut 2 KB
Internet Information Services (IIS) Manager 8/8/2008 10:25 PM Shortcut 2 KB
iSCSI Initiator 11/2/2006 7:54 AM Shortcut 2 KB
Memory Diagnostics Tool 11/2/2006 7:53 AM Shortcut 2 KB
Microsoft .NET Framework 2.0 Configuration 12/21/2008 11:32 ... Shortcut 2 KB

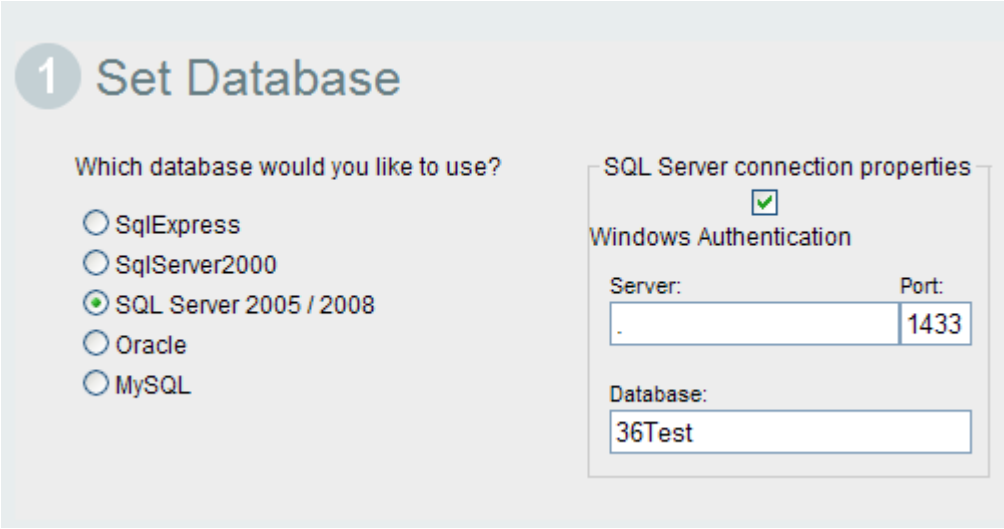
3. Right click Default Web Site, then click Add Application as shown below:



4. Give the site an alias of your choosing and navigate to the website's location on your computer. As an example, the location could be C:\ProgramFiles\Telerik\Sitefinity3.6\Websites\36Test\ as shown below:

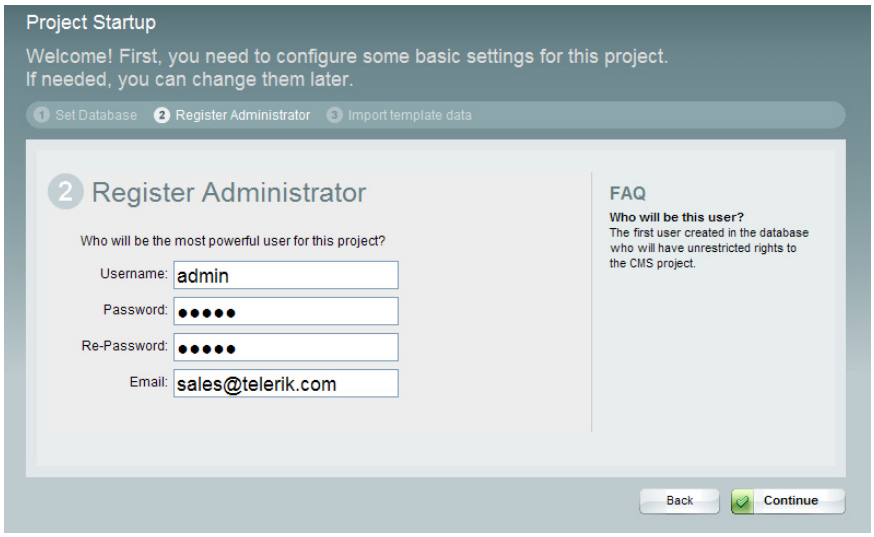


5. Once this is complete, navigate to http://localhost/[Virtual_Directory_Name]/Sitefinity/Login.aspx in your browser
6. Complete the database credentials screen that appears. If you don't know this info, talk to your system administrator:



Note: If you receive an error saying login for user has failed, please read this section of our guide.

7. On the next page, complete the administrative user page:


Project Startup
Welcome! First, you need to configure some basic settings for this project.
If needed, you can change them later.
1 Set Database
2 Register Administrator
3 Import template data
2 Register Administrator
Who will be the most powerful user for this project?
Username: admin
Password: •••••
Re-Password: •••••
Email: sales@telerik.com
FAQ
Who will be this user?
The first user created in the database who will have unrestricted rights to the CMS project.
Back
Continue

At the end, you'll be asked to login to your Sitefinity website.

5. Installing Sitefinity under Windows Vista

Sitefinity offers an auto-installer that will work on all Vista systems except Home Premium, which lacks Windows Authentication. Installation on all Vista systems involves creating a database, a Virtual Directory, either by the auto installer or manually, then adding an admin user.

Creating the Database

Although you can use SQL Express and Sitefinity could put that database in your App_Data folder, it's highly recommended that you create a database on your server and use that one, which can be done by selecting SQL 2005 from the database screen and completing the form. These steps are identical to the ones for Windows Server 2008. To create a database, follow these steps:

1. Go to Start > All Programs > Microsoft SQL Server [Year] > SQL Server Management Studio [Year] (Express will also work
2. Right click on that icon and left click **Run as Administrator**
3. On the login screen that appears, enter the appropriate credentials and click connect. If you do not know this info, talk to your system administrator
4. Right click on the databases folder and click New Database
5. Enter in a name for the database, such as 36Test

Automatic Installation

Using the Auto-Installer for Windows Server for 2008 is the same as using it for Windows Vista. For more info on this subject, please refer to the Windows Server 2008 instructions. Sitefinity will get installed in C:\Program Files\Telerik\Sitefinity3.6\ folder.

Manual Installation

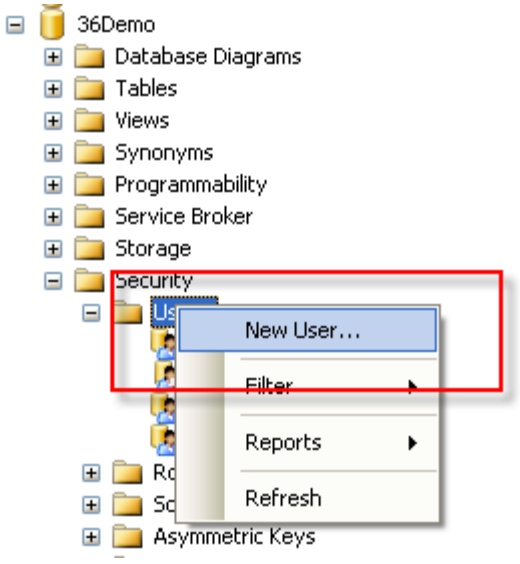
For Windows Vista Ultimate and Windows Vista Business, you may use the auto installer. If the auto installer fails or if you're using Windows Vista Home Premium Edition, which does not support an automatic install due to no Windows Authentication, you can perform a manual install. These steps are the same as in Windows Server 2008.

6. Installing Sitefinity under Windows XP

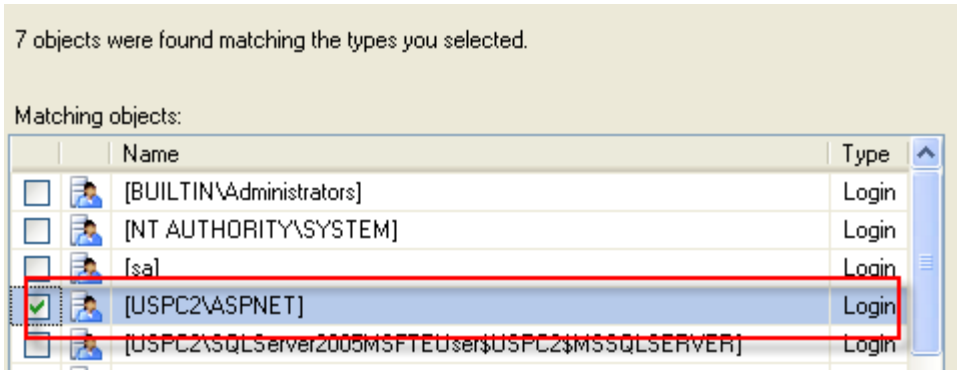
Creating the Database

All of Sitefinity's content is stored inside the database, so there is no file structure. Although you can use SQL Express and Sitefinity could put that database in your App_Data folder, it's highly recommended that you create a database on your server and use that one. This will ensure you can run scripts on the database easier. To create a database, follow these steps:

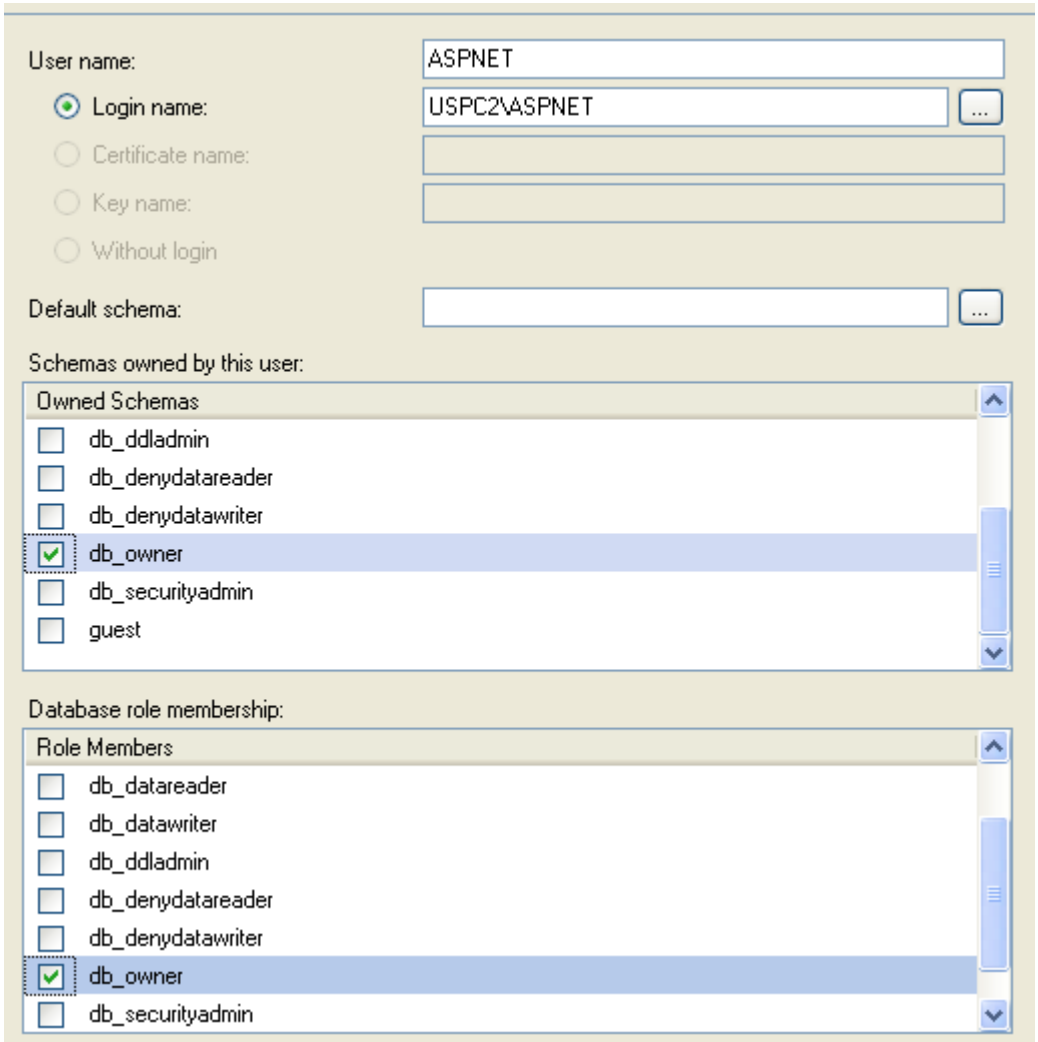
1. Go to Start > Program Files > Microsoft SQL Server 2005 (or 2008)> SQL Express Management Studio (or the express version)
2. Connect to your instance of SQL Server. If you don't know these credentials, contact your system administrator
3. On the login screen that appears, enter the appropriate credentials and click **Connect**. If you do not know this info, talk to your system administrator
4. Right click on the databases folder and click **New Database**
5. Enter in a name for the database, such as 36Test
6. Expand the databases section, expand your database, then the security folder and right click on the users folder as shown below:



7. Click the ellipse buttons next to login and find the ASPNET user as shown below:



8. Complete the form as shown below:



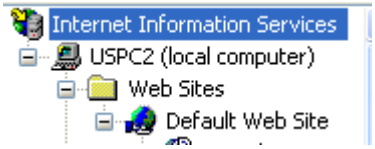
Automatic Installation

The automatic installation requires downloading the auto-installer, creating a database on your server (recommended), and creating an admin user. The process for an auto-install on Windows XP is the same as with Windows Server 2008, except you need to ignore anything about running programs as an administrator.

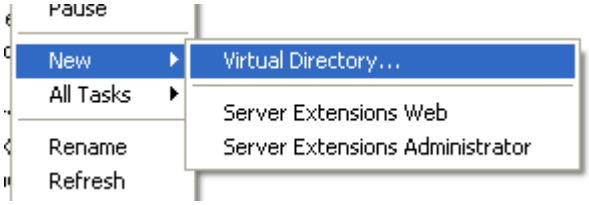
Manual Installation

If the automatic installation of Sitefinity fails, then you can install Sitefinity manually by creating a Virtual Directory in IIS 6:

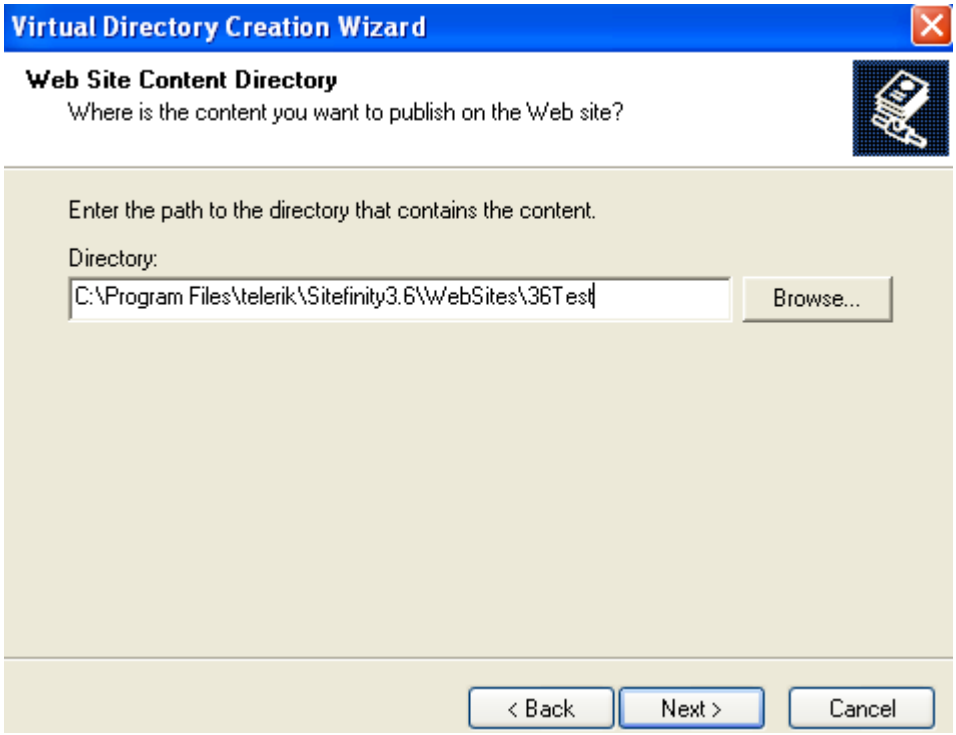
1. Go to Start > All Programs > Administrative Tools > Internet Information Services
2. Expand the computer, Web Sites and Default Website folders as shown below:



3. Right click on Default Website and go to New > Virtual Directory:



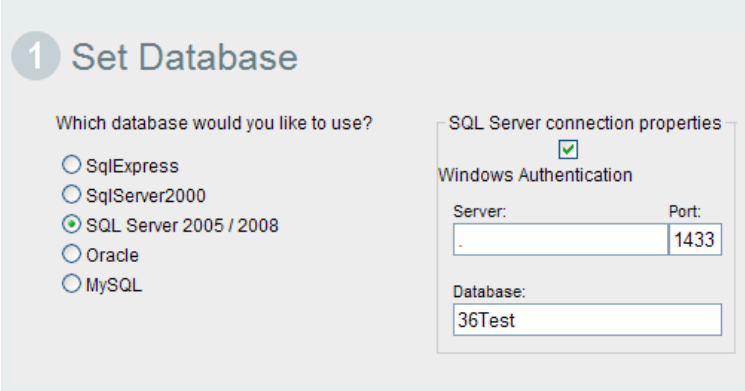
4. On the dialog that appears, click next
5. In the alias box give your site a name, such as 36Test
6. For the next step, browse to the location of your website:


Virtual Directory Creation Wizard
Web Site Content Directory
Where is the content you want to publish on the Web site?
Enter the path to the directory that contains the content.
Directory:
C:\Program Files\telerik\Sitefinity3.6\WebSites\36Test
Browse...
< Back
Next >
Cancel

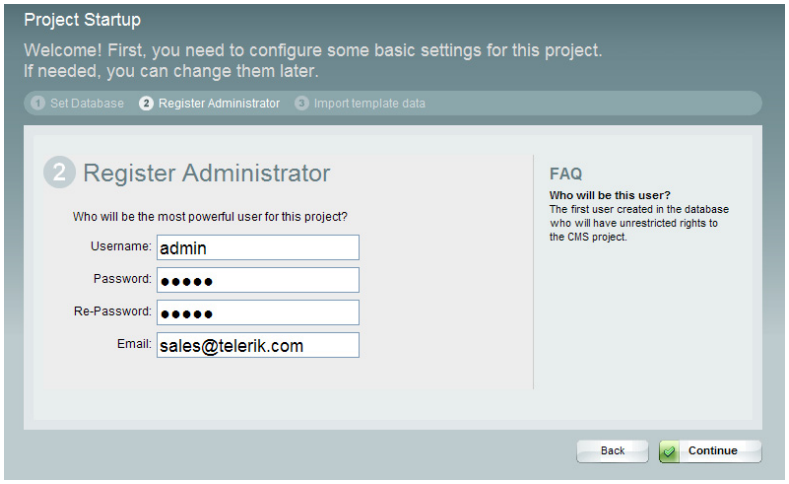
7. Click next
8. On the next step, click next
9. Click finish

Once this directory has been created, you must navigate to it in your browser by following these instructions:

1. In this example, navigate to http://localhost/36Test/Sitefinity/Login.aspx
2. Complete the database credentials screen that appears. If you don't know this info, talk to your system administrator



3. On the next page, complete the administrative user page


Project Startup
Welcome! First, you need to configure some basic settings for this project.
If needed, you can change them later.
1 Set Database
2 Register Administrator
3 Import template data
2 Register Administrator
Who will be the most powerful user for this project?
Username: admin
Password: •••••
Re-Password: •••••
Email: sales@telerik.com
FAQ
Who will be this user?
The first user created in the database who will have unrestricted rights to the CMS project.
Back
Continue

At the end, you will be asked to login to your Sitefinity website.

7. Installing Sitefinity on Windows Server 2003

The installation instructions for installing Sitefinity on Windows Server 2003 are the same as installing Sitefinity on Windows XP. Any references to the ASPNET user should be replaced with the Network Service user.

8. Installing Sitefinity in a Shared Hosting Environment

This article will give you instructions for deploying your Sitefinity Web site shared hosting plan. Although there are many other hosting providers that support Sitefinity, **Discount ASP.NET** was used in this example.

License Keys

If you are using the Community Edition, please skip to section Signing up for Discount ASP.NET.

For the Standard Edition, you need to generate a license key and place it in the project's *Sitefinity* folder. To do so, please follow these instructions:

1. Sign in to your Client.net account.
2. In the left pane, click Licenses.
3. Follow the on-screen instructions.
4. After you complete step 3, a license file will be e-mailed to you.
5. Save the *LicenseFile.xml* file in the *\Sitefinity3.x\WebSites\[YourWebsite]\Sitefinity* folder.
6. Restart the application to ensure no more trial messages appear.

Creating the Site

Note that the Sitefinity module providers cannot get their database objects created in medium trust environment and you may get errors. To prevent this, you need to enforce database upgrade in full trust environment, in your local website. Creating at least one content item in each module before uploading the upgraded database to the hosting server will initialize all modules in the database.

We would recommend setting up your database's admin first and creating a home page with some filler text, just so you can ensure that your site is working properly when you visit it. Ideally, you should create a theme and master pages on your local machine. Then, create the content (pictures, text, etc.) on the page live. For more information on this subject, follow the instructions in the User Manual, which can be found in the Sitefinity installation folder.

Hosting Plan

We recommend using Windows Server 2008 and IIS 7 Integrated Pipeline Mode - it works faster than Windows Server 2003 and IIS5. This plan will also give you 200 MB of memory in the application pool. To prevent your users from being logged out after being idle, set up a scheduled task to ping your site every 15 minutes.

Signing Up for Discount ASP.NET

You will first order a basic package and then an SQL 2005 database. Here are the instructions for signing up:

1. Go to this URL: https://www.discountasp.net/signup/package.aspx
2. If you have a domain, complete the info on the left hand side. If you do not have one, you must buy a domain for $15 per year.
3. On the next screen, complete the billing info.
4. Once you sign-up, you need to order an SQL 2005 database.
5. Go to Account Management > Order Addons:

6. Order an SQL 2005 database. Note that it will be activated in a few hours' time.

Once this process is complete, you should attach the .mdf file from your local installation to their SQL Server.

Preparing and Copying the Files

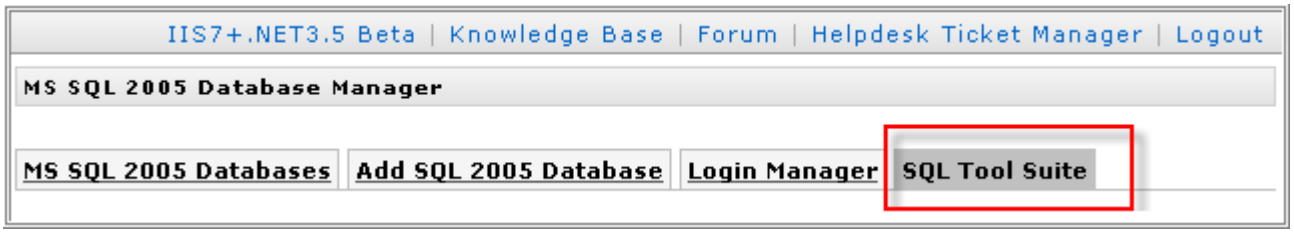
While you are waiting for Discount ASP.NET to activate your database, you could delete the skin files in the *RadControls* folder in your root directory. Although this is optional, deleting these skin files would save some disk space on the server and your site would be uploaded faster. If you have created a user control using one of our UI controls, make sure that the skin you are using is in the appropriate folder. For more detailed instructions about which files are needed on the server, please see this KB article.

When you have finished preparing your files, copy the Web site to their server. Do not upload the web.config file yet because you need to make some changes as stated further in this article. To copy your files, use an FTP client such as FileZilla.

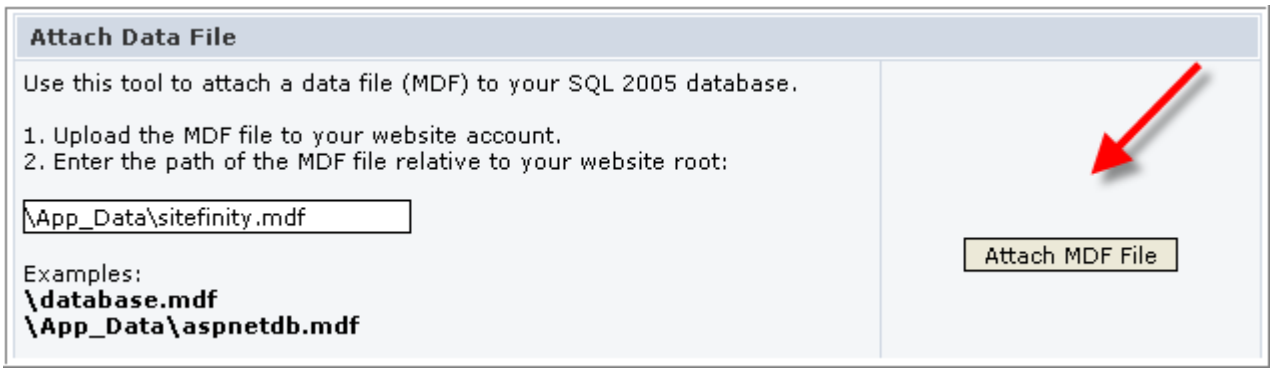
Attaching your Database

After you have copied the files and your database has been activated by Discount ASP.NET, you need to copy the contents of your Sitefinity SQL 2005 Express Database to the Discount ASP's blank SQL 2005 Standard Database that you purchased. This process is known as attachment, even though you are not actually connecting a database to their server. Here are the instructions for attaching your database to their server:

1. Sign in to your account.
2. Go to **SQL Tool Suite**:


IIS7+.NET3.5 Beta | Knowledge Base | Forum | Helpdesk Ticket Manager | Logout
MS SQL 2005 Database Manager
MS SQL 2005 Databases
Add SQL 2005 Database
Login Manager
SQL Tool Suite

3. Type *\App_data\sitefinity.mdf* into the Database attachment box and click the **Attach MDF File** button:


Attach Data File
Use this tool to attach a data file (MDF) to your SQL 2005 database.
1. Upload the MDF file to your website account.
2. Enter the path of the MDF file relative to your website root:
\App_Data\sitefinity.mdf
Examples:
\database.mdf
\App_Data\aspnetdb.mdf
Attach MDF File

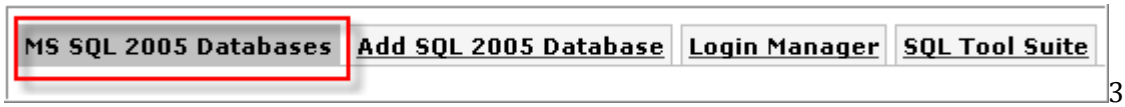
4. You will see a success message on the screen.

Web.Config

You need to make a few changes to the application web.config file to deploy Sitefinity on the Discount ASP.NET server.

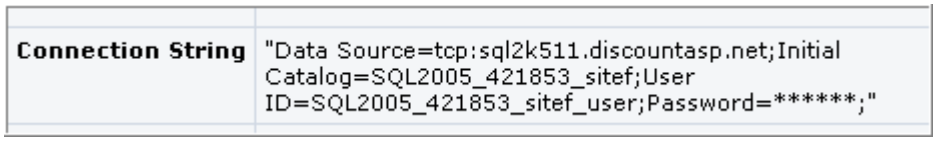
First, you need to change the connection string in your web.config file because the location of your database will change for your local machine to their server. Here are the steps for changing your connection string:

1. Sign in to your account at Discount ASP.NET
2. Go to **MS SQL 2005 Databases**:



3.

3. Copy and paste the connection string into your web.config, using the example above as a guideline. Here is a screenshot from our sample account:



4. On the Discount ASP control panel, click **Login Manager**.
5. On the Login Manager page, click **change password**:

6. Change the password to *admin*. This should correspond to the password portion of the connection string.
7. This is what your connection string looks like on your local machine:

```
<connectionStrings>
    <add name="Sitefinity" connectionString="Data Source=.\SQLExpress;Integrated Security=True;User Instance=True;AttachDBFilename=|DataDirectory|Sitefinity.mdf" providerName="System.Data.SqlClient"/>
</connectionStrings>
```

This is what it should look like on the server:

```
<connectionStrings>
    <add name="Sitefinity" connectionString=" Data
Source=tcp:sql2k511.discountasp.net;Initial Catalog=SQL2005_421853_sitef;User
ID=SQL2005_421853_sitef_user;Password=admin;" />
</connectionStrings>
```

Basically, everything after **connectionString** changes to what Discount ASP gives to you.

Second, you need to turn off **healthMonitoring**:

```
<healthMonitoring enabled="false" heartbeatInterval="0">
```

Third, you need to turn off page and module workflow

```
allowPageWorkflow="false"
allowWorkflow="False"
```

Make sure the following lines are commented out:

```
<!--add name="SitefinityXml" securityProviderName=""
type="Telerik.Lists.Data.XmlProvider,
        Telerik.Lists.Data" dataFile="~/App_Data/Lists.xml" visible="true"  /-->
```

This next part is optional. You can change the errors mode, so instead of your users seeing a "Error in Applicaton" message, they can see a "Web page down for maintenance" message. In the application web.config, change this portion:

```
<customErrors mode="Off"
```

To this:

```
<customErrors mode="RemoteOnly" defaultRedirect="~/customerrorpage.html"/>
```

In your Web site, create an *.html* page with the *customererrorpage.html* title. Place any text there as necessary.

Finally, upload the application web.config file to your server.

Editing your website

If you go to your Web site at http://www.mysite.com/, you can see it the way your end users would see it. If you go to http://www.mysite.com/sitefinity/admin/ , you are redirected to the login page.

9. Installing Sitefinity in a Location Other Than Default Website

By default, the Sitefinity installer creates its virtual folders in the default IIS site, "Default Web Site". If you do not want to install Sitefinity under the Default Web Site, you need to edit the MetaBase.xml which is the actual XML file that contains the IIS configuration settings.

Here is how to tell the installer to create the virtual directories under a website called "My Test":

1. Open the %SystemRoot%\System32\Inetsrv\MetaBase.xml file and in the respective IIsWebServer element, notice the number similar to the highlighted number below. Copy this number.

   <IIsWebServer Location ="/LM/W3SVC/859801432"

   AuthFlags="0"

   LogPluginClsid="{FF160663-DE82-11CF-BC0A-00AA006111E0}"

   ServerAutoStart="TRUE"

   ServerBindings=":8090:"

   ServerComment="My Test">

2. Open the /telerik/Sitefinity3.x/ProjectManager/Web.Config file and in the <appSettings> section, add this:

   <appSettings>

   <add key="rootSubPath" value="/W3SVC/859801432/Root" />

   </appSettings>

3. Save the file.

4. Restart IIS and create your Sitefinity project.

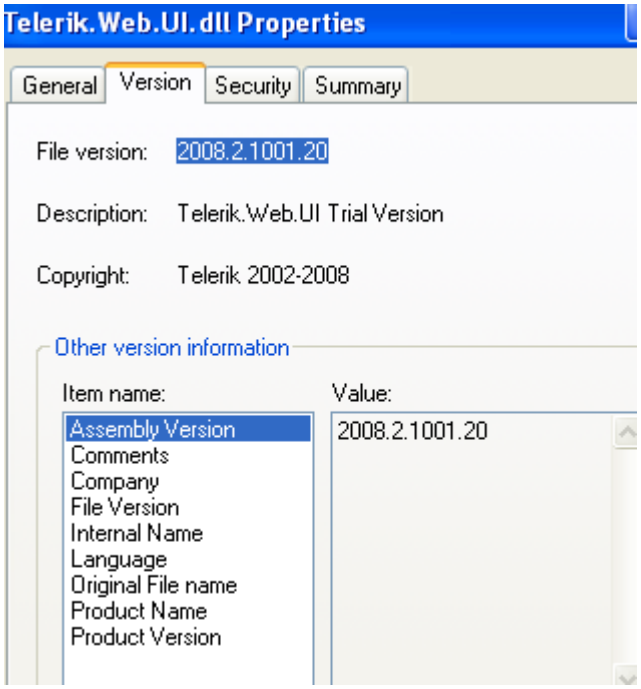
10. Deploying Sitefinity in a Load Balanced Environment

There is one requirement that needs to be met in order to use Sitefinity in a load balanced environment. In the application web.config file, you need to change the cache dependency mode from **InMemory** to **InDatabase**:

```
<configuration>
   <telerik>
      <dataAccess defaultConnection="DefaultConnection">
         <cacheDependency mode="InDatabase" />
      </dataAccess>
   </telerik>
</configuration>
```

When you set the mode to **InDatabase**, the changes you make on one of the sites will be immediately reflected on the other sites.

Synchronizing images and other files between servers in the Web farm is the responsibility of your load balancing software.



1. Save the web.config file and restart the application.

For more information on assembly binding, please read these MSDN articles:

http://msdn2.microsoft.com/en-us/library/2fc472t2(vs.71).aspx

http://msdn2.microsoft.com/en-us/library/eftw1fys(VS.71).aspx

11. Getting Started with the Sample Site

Once you have installed Sitefinity on your machine, you can create your own Sitefinity project or try the same **Telerik International University** (TIU) site. You can use them with any supported database to run the TIU site.

To use one of the sample sites as a template for your web site, do the following:

1. Set-up the Sitefinity auto installer on either Windows Server 2008, Windows Vista, Windows XP or Windows Server 2003

2. Access the **Project Manager** locally through:
   - the **Start Menu** > **All Programs** > **telerik** > **Sitefinity3.x** > **Sitefinity3.x**.
   - URL: http://localhost/telerik/Sitefinity3.x/Default.aspx
3. Click on Explore Sample Site

Explore Sample Site
This is a fictitious site called Telerik International University.
It demonstrates the key features of Sitefinity.

Sitefinity will now install the TIU site on your machine.

4. After the installation completes, you will be asked to login.

User Name: admin
Password : admin

To access the TIU site, go through the project manager and click on the TIU site.

12. Upgrading Sitefinity Projects

Overview

As newer versions of Sitefinity are released, the database structure changes. Because Sitefinity's database is forward mapped, which means that classes are used to create database tables, swapping the files from the newer version upgrades the project. The necessary classes are already in the assemblies, so once the project is started the database structure changes automatically. If you've changed templates, then be aware that the names have changed for Sitefinity 3.6 and these must be mapped before changes can be made.

Upgrading Projects to Sitefinity 3.6

To upgrade to Sitefinity 3.6, follow these steps:

1. Login to your Client.net account
2. Click on downloads
3. Download this file:

4. Unzip it in a location of your choice
5. **Important! Back up your database and all files from your Sitefinity project**
6. Replace the files from the patch with the files in your application
7. Please note that we are no longer overriding your control templates. By default, Sitefinity will use its own embedded templates both for the back-end and the front-end. In order to use your customized control templates, you should map a view to each of them. For more information, please read the Upgrading Control Templates section in this guide
8. Delete the Telerik.Charting.dll from your project's bin directory. This assembly is now merged with Telerik.Web.UI.dll
9. Open the ~/Sitefinity/ServiceAssemblies directory and make sure you delete the assembly there. When you initialize the Newsletters module, it will be recreated.
10. If the project is local, press Ctrl + F5 in Visual Studio to build the project and resolve any errors.

11. Once done with the upgrade, you need to start the Search Indexes. Otherwise, you will get error messages if you try to publish content. To start the Search Indexes, go to the administration area, Administration tab, section Services -> Search and start all indexes by clicking on the Start indexing links.

Upgrading Projects Created with Sitefinity Community to Standard Edition

To upgrade from Sitefinity Community Edition to Sitefinity Standard Edition:

1. Install the Sitefinity Standard Edition.
2. Create a new project with the Standard Edition.
3. Click **Go to administer the project** and point to the DB of the project created with the Community Edition.

   Note that if you are using SQL Express, at the first wizard step, you should copy the .MDF file from your old **App_Data** folder to the new project **App_Data** folder.

   If you are using SQL Server, enter the database connection settings here (to point to the old database).

   If using Windows Authentication, make sure the account that runs the ASPNET process (Network Service for Windows Vista and Windows Server 2008) has the appropriate permissions to the database.

4. Copy all custom files from your old project to the new project. These include user controls, scripts, images, .CSS files, .DLL files, etc. Do not replace existing files.
5. If you have made any modifications in your old project **Admin** folder and web.config file, add those to the new project.
6. Copy your old project **.master** files to the new project **App_Master** folder.

Upgrading from Sitefinity Trial to Standard Commercial License

Practically, there is no difference between the trial and developer/commercial editions of Sitefinity. Both are, in fact, the fully functional Sitefinity Standard Edition. The only difference is that the trial license cannot be used for commercial purposes and displays copyright messages. Once a commercial license is purchased and a license key applied, these messages are disabled.

Switching from trial to developer license does not require you to uninstall and reinstall Sitefinity or replace assemblies with their developer versions. You only need to generate a license key for your top level domain and place the **LicenseFile.xml** file in the

~/[YourWebsite]/Sitefinity folder. For more info on applying the license key, please refer to the Setting the License Key section of this guide.

Downgrading to the Community Edition or a Previous Version of Sitefinity

The steps for downgrading are the same for upgrading, so you'll download the patch for the version you'd like to downgrade and swap files.

Upgrading to the latest version of RadControls for ASP.NET AJAX

About every 1-3 months, the Sitefinity team releases a service pack that integrates the latest RadControls for ASP.NET AJAX with Sitefinity. Because a version of RadControls newer than Sitefinity has not been fully tested, we recommend waiting until the Sitefinity team releases a service pack to upgrade your RadControls. If it necessary to upgrade before a service pack, the software developer can use assembly binding to upgrade the project in the meantime by following these steps:

1. In the bin folder of your Sitefinity application, delete the Telerik.Web.UI assembly and its corresponding Telerik.Web.UI.XML file.

2. Copy in the latest version of the Telerik.Web.UI and the Telerik.Web.UI.XML file into the bin folder of the Sitefinity application

   Open the application web.config file to specify the binding redirection information for every assembly using the <assemblyBinding> element. The example above demonstrates upgrading from Q2 2008 SP 1 version of RadControls to the Q3 2008 SP2 release.

```
<runtime>
  <assemblyBinding xmlns="urn:schemas-microsoft-com:asm.v1">
     <dependentAssembly>
       <assemblyIdentity name="Telerik.Web.UI"
        publicKeyToken="a1432cd341173140" />
       <bindingRedirect oldVersion="2008.2.1001.20"
newVersion="2008.3.1314.35" />
     </dependentAssembly>
  </assemblyBinding>
</runtime>
```

3. Substitute the **name**, the **publicKeyToken** and **oldVersion** with the values from the assembly's manifest. To get these values, simply right click on the assembly, click properties and then click the version tab as shown below:

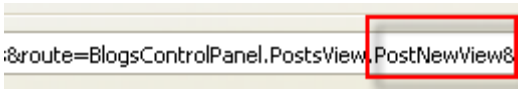
For more info on Assembly Binding, please read this article.

Upgrading Control Templates

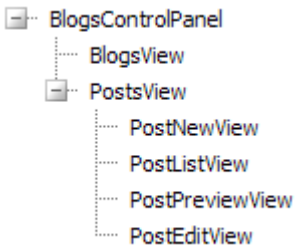
To display content, Sitefinity uses a series of user controls called control templates. Inside of these control templates are many common ASP.NET UI controls, such as literals, labels and textboxes. By default, these control templates are embedded inside assembles. To make changes to these control templates, you must extract them from the assemblies and then work with the code inside the controls.

Some of the template names have changed since version 3.5. ControlPanelEdit.ascx, for example, was used to edit content from many modules, such as the Blogs and News module. This file no longer exists. If you have a previous version of Sitefinity and you've made changes to these templates, you'll need to find out which template to use by following these steps:

1. Figure out which template you need:
    a. If you'd like to edit the template for creating a blog post, go to Modules > Blogs.
    b. Click on your blog
    c. Click the create a post button
    d. Notice that the route section says PostNewView:



That is the template that you need. Sitefinity navigates to different templates by routes and these routes are hierarchical. Using the blogs module as an example, here is the hierarchy:



To navigate to the PostNewView, the blogs module must go to the BlogsControlPanel, then the PostsView, then the PostNewView. This is represented by dots as you see in the route query string above.

2. Create the following file in the ~/App_Data/Configuration directory : Telerik.Sitefinity.Configuration.ControlsConfig.xml
3. Add the code below to that file:

```
<?xml version="1.0" encoding="utf-8"?>
<controlsConfig>
          <viewMap>
                              <!--Provides user interface for
creating new blog post in the blogs module.-->
                              <viewSettings
hostType="Telerik.Blogs.WebControls.Admin.PostNewView"
layoutTemplatePath="~/Sitefinity/Admin/ControlTemplates/Blogs
/PostNew.ascx" />
          </viewMap>
</controlsConfig>
```

4. Press Ctrl + f5 to build the Visual Studio Project
5. Login to your Client.net account and click on downloads
6. Download this file:

7. Unzip that download and copy these files

   \Sitefinity\Admin\ControlTemplates\Blogs\PostNewView.ascx
   \Sitefinity\Admin\ControlTemplates\Blogs\App_LocalResources\PostNewView.ascx.resx

   Into these directories in your Sitefinity project:

PostNewView.ascx - \Sitefinity\Admin\ControlTemplates\Blogs
PostNewView.ascx.resx - \Sitefinity\Admin\ControlTemplates\Libraries\App_LocalResources

8. Open the **~/Sitefinity/Admin/ControlTemplates/Blogs/PostNewView.ascx** and make changes

13. Migrating the Database

Some Sitefinity websites are using an older version of SQL Server, such as SQL 2000. Other times, software developers want to downgrade their database to a previous version of SQL Server. These instructions are for software developers who want to upgrade or downgrade their Sitefinity database to SQL 2000 or SQL 2005.

Migrating an SQL Database

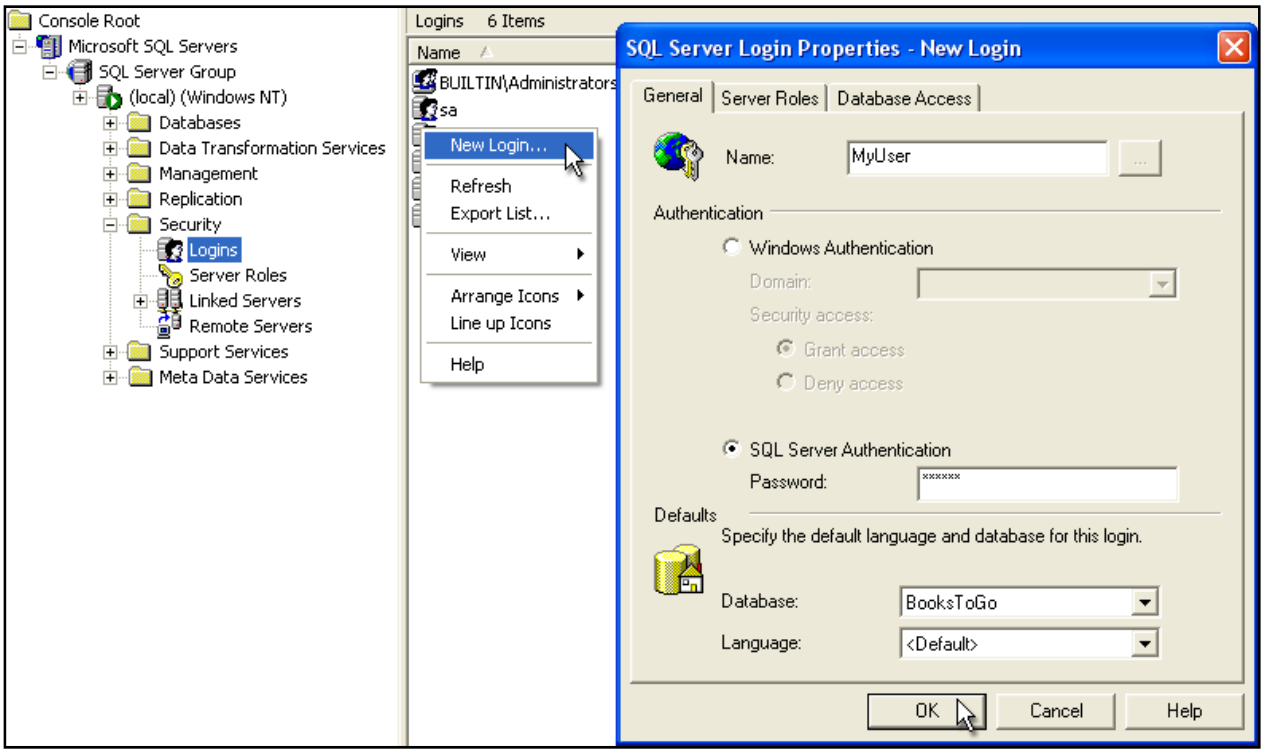
If your Sitefinity Web site project uses a Microsoft SQL Server database, when migrating the project to a different location, you need to migrate the SQL database as well.

Copying the SQL Database to the Destination Server

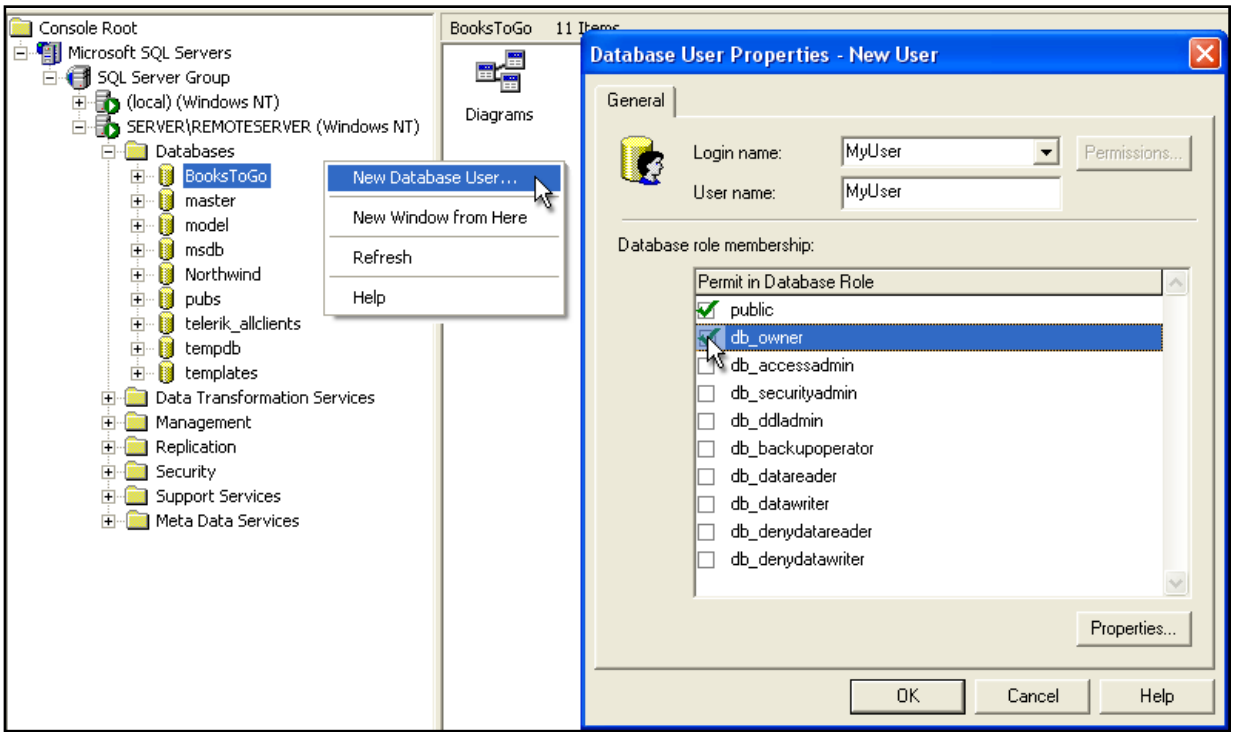
To migrate the SQL database to the server:

1. Open the MS SQL Server Enterprise Manager and connect to the remote (destination) server.

2. On the destination server, create a database user with the same name as the database user on the source server.

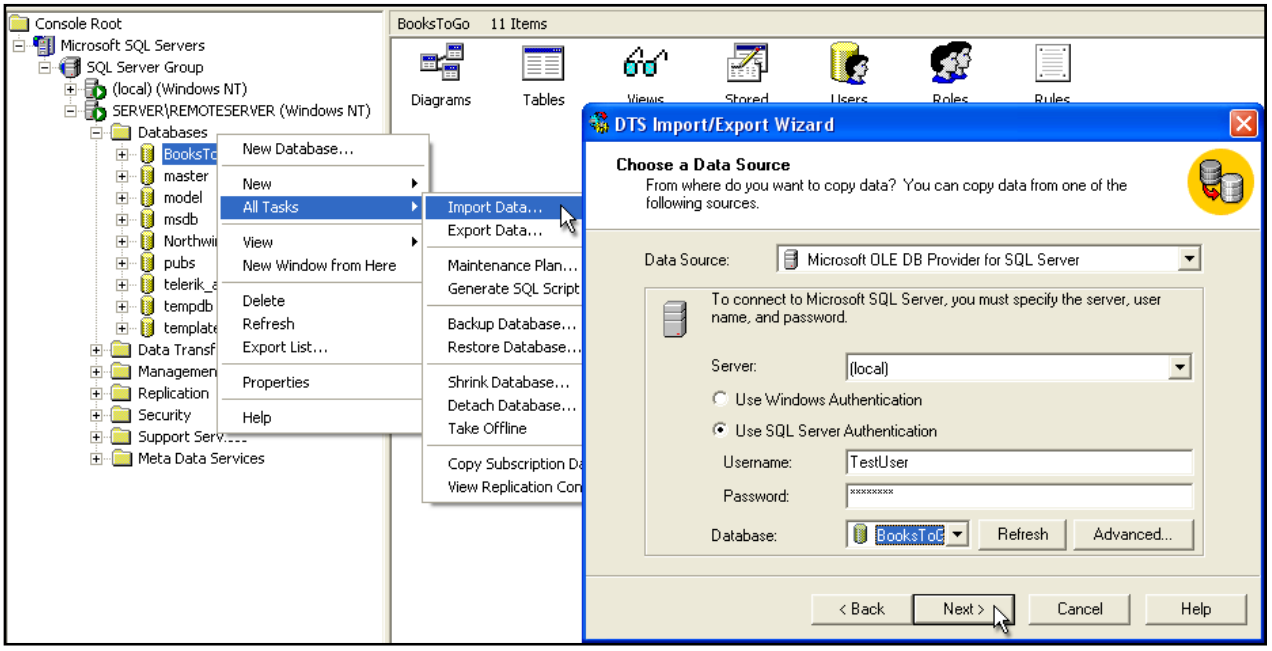


3. Connect to the SQL server on the remote machine and create a new database (for example BooksToGo). Add the database user (for example MyUser) and select the **db_owner** checkbox.


Console Root
Microsoft SQL Servers
SQL Server Group
(local) (Windows NT)
SERVER\REMOTESERVER (Windows NT)
Databases
BooksToGo
master
model
msdb
Northwind
pubs
telerik_allclients
tempdb
templates
Data Transformation Services
Management
Replication
Security
Support Services
Meta Data Services
BooksToGo 11 Items
Diagrams
New Database User...
New Window from Here
Refresh
Help
Database User Properties - New User
General
Login name: MyUser
Permissions...
User name: MyUser
Database role membership:
Permit in Database Role
public
db_owner
db_accessadmin
db_securityadmin
db_ddladmin
db_backupoperator
db_datareader
db_datawriter
db_denydatareader
db_denydatawriter
Properties...
OK
Cancel
Help

3. Select the newly created destination database, and then go to **All Tasks > Import Data** to open the **Import/Export Wizard**.

4. Choose the Local SQL server, Username, and Password. Then select the source database (BooksToGo) and click **Next**.

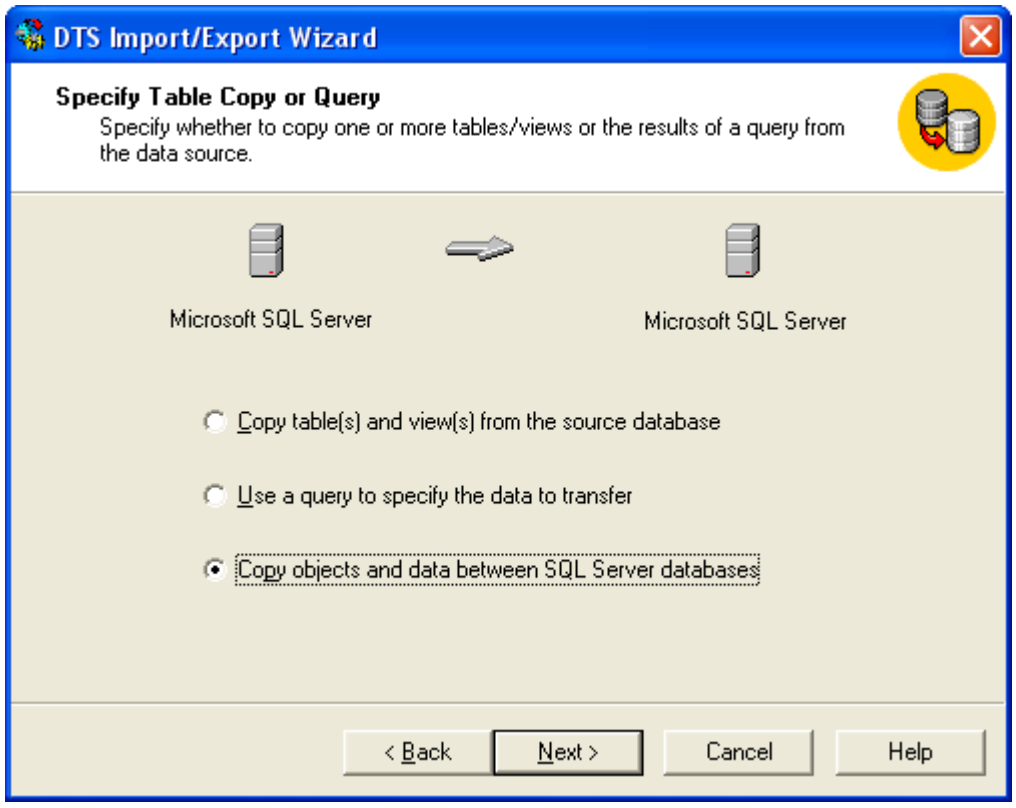


5. In the same way, select the destination server, Username, Password, and database.

6. Click **Next**.

7. At the Table and Query step, select Copy objects and data between SQL Server databases.

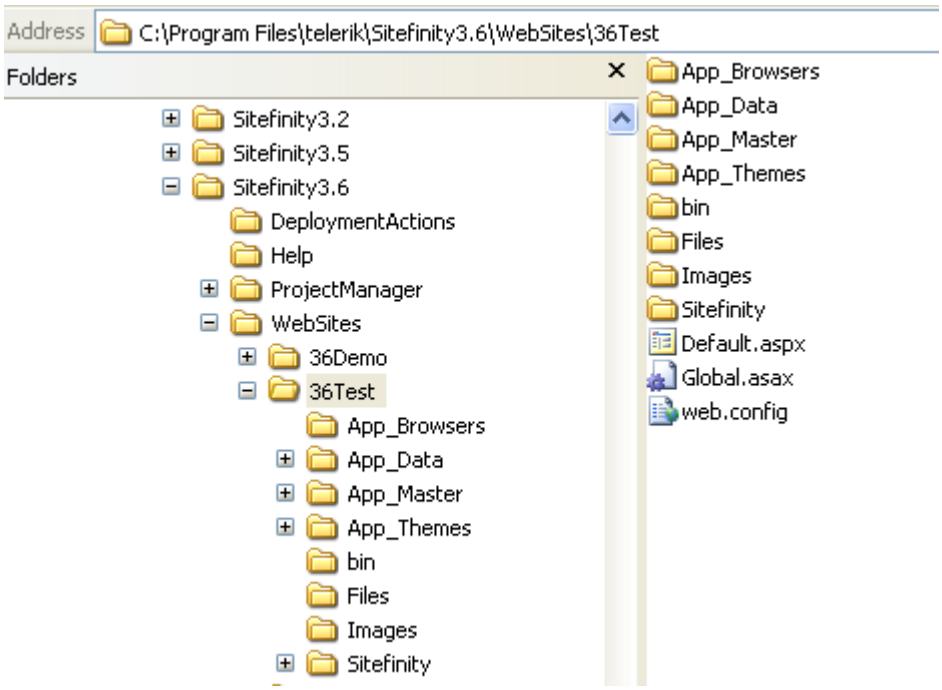
8. Click **Next** and then **Finish**. The database copy process will start.


DTS Import/Export Wizard
Specify Table Copy or Query
Specify whether to copy one or more tables/views or the results of a query from the data source.
Microsoft SQL Server
Microsoft SQL Server
Copy table(s) and view(s) from the source database
Use a query to specify the data to transfer
Copy objects and data between SQL Server databases
< Back
Next >
Cancel
Help

Setting the SQL Connection String

Once the SQL database is successfully copied to the destination server, you need to set the connection string in the web.config file of the new Sitefinity web application. If the database name, Username, and Password, on the source server are the same as the ones on the destination server (recommended), you can set the connection string by copy-paste from the source web.config file.

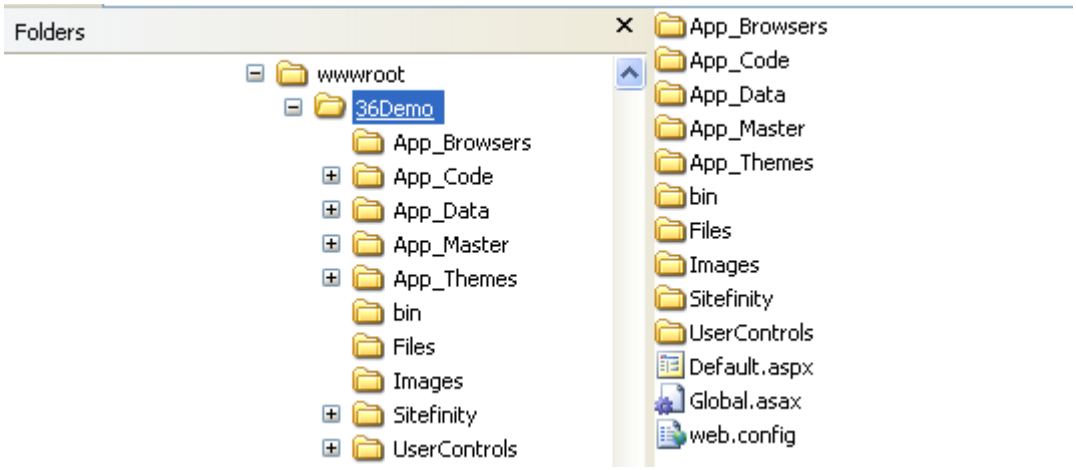
1. Open the web.config file located in the respective project subfolder on the source machine.



2. Find the following lines and copy them.

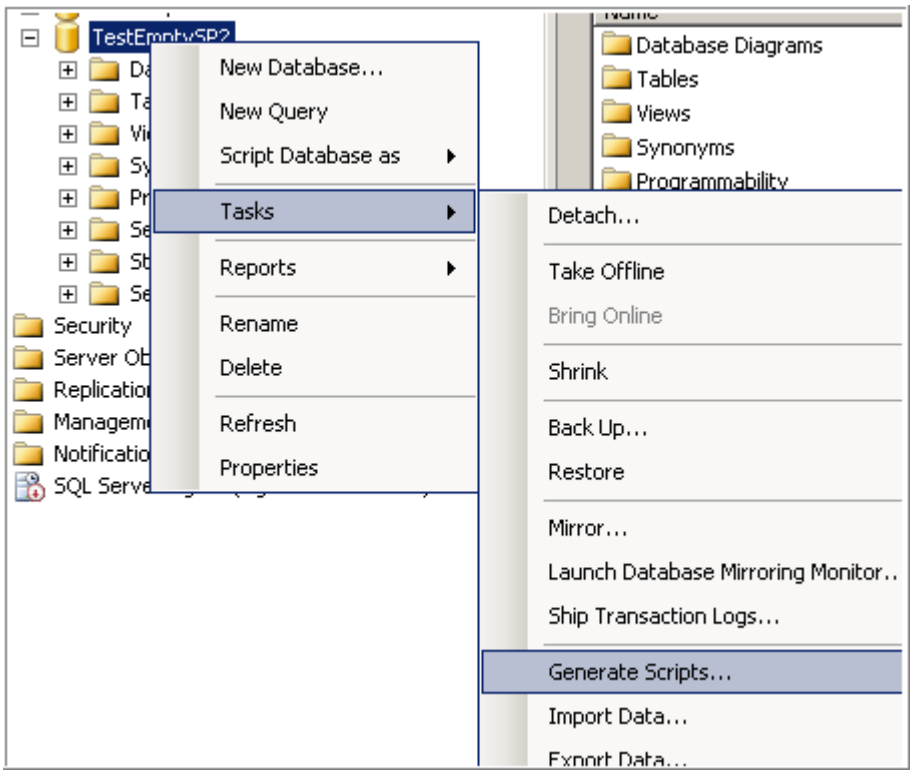
```
<connectionStrings>
<add name="Sitefinity" connectionString="…"
providerName="…" />
</connectionStrings>
```

3. Open the web.config file in the root of the newly created Sitefinity web application on the destination machine, which is C:\Inetpub\wwwroot\. Find the connection string lines and replace them with the ones you copied in step 2. If the database or the user password is different on the destination machine, make sure you modify the connection string accordingly.

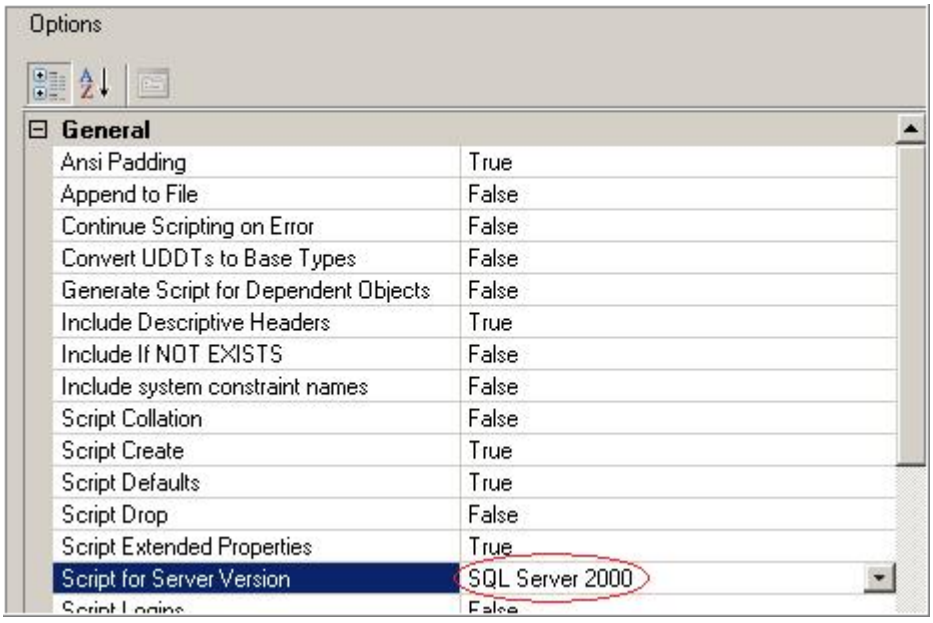


Migrating the Sitefinity Database from SQL Server 2005 to SQL Server 2000

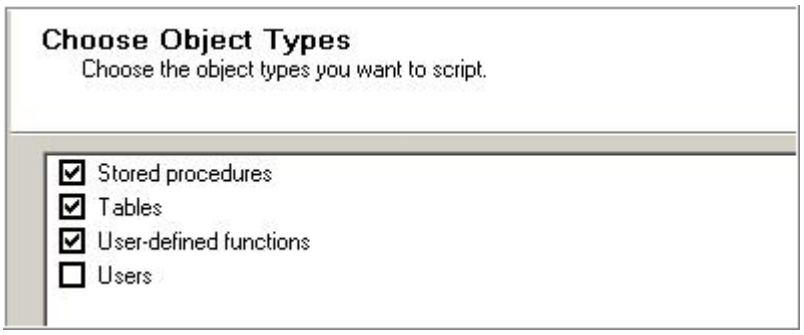
1. Generate a database script in Microsoft Server Management Studio > Script Wizard:



2. At the **Options** step, select **SQL Server 2000** for **Script for server version**:



3. At the **Object Types** step, choose to script **Stored Procedures, Tables** and **Functions**:



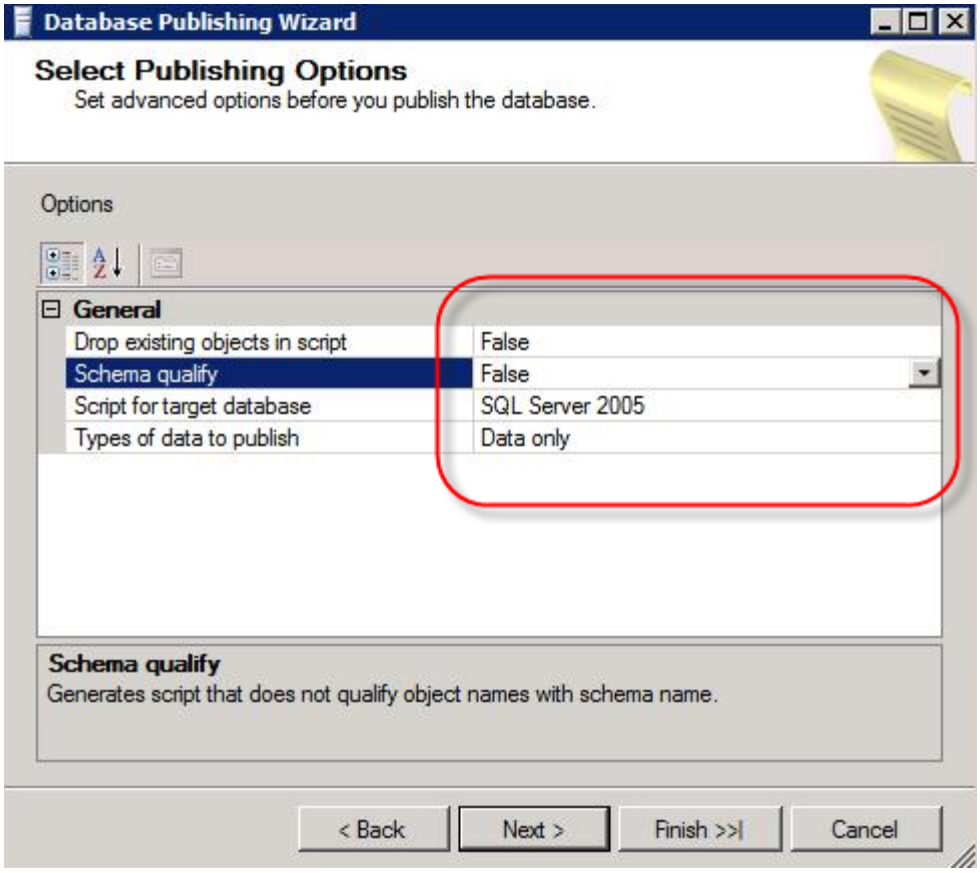
4. Open the script generated at step **1** in a text editor and replace in it:

   Replace **nvarchar(max)** with **ntext**
   Replace **[nvarchar](max)** with **[ntext]**
   Replace **varbinary(max)** with **image**
   Replace **[varbinary](max)** with **[image]**

5. Create a new database in SQL Server 2000 and run the script generated at step **2** and modified at step **4**.

6. Download and install the Database Publishing Wizard tool.

7. Open SQL 2005 database in the Database Publishing Wizard and generate a script with the following options to script data only:



8. Run the script generated in step **7** into the SQL Server 2000 database.
9. Open the application web.config.
10. Change the connections string to point to the SQL Server 2000 database.
11. Change the Nolics data providers in the *dataAccess* section:

```
<dataAccess defaultConnection="DefaultConnection">
   <connections>
      <add name="DefaultConnection"
driver="Nolics.ORMapper.DataProviders.SqlServer2000Provider"
        connectionStringName="Sitefinity" />
      <add name="GenericContentConnection"
driver="Telerik.Cms.Engine.Data.Providers.GCSql2000Provider,
Telerik.Cms.Engine.Data"
          connectionStringName="Sitefinity" />
   </connections>
```

Upgrading the Sitefinity Database from SQL Server 2000 to SQL Server 2005

1. Upgrade the database using detach and attach. Please refer to this article for more information:
   How to: Upgrade database using detach and attach

2. Open the application web.config file and modify the connection string to point to the new database:

```
<add name="Sitefinity" connectionString="data
source=xxxx;UID=xxxx;PWD=xxxx;initial catalog=xxxx"
      providerName="System.Data.SqlClient" />
```

3. Change the Nolics data providers in the *dataAccess* section:

14. Configuring IIS

Extensionless URLs

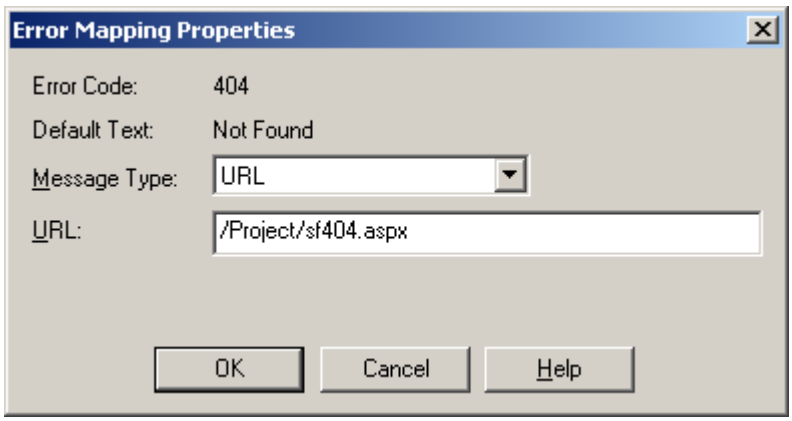
This topic describes an approach that handles HTTP 404 errors which you get if you request an extensionless URL like *http://localhost/YourWebSite/home* where **home** is set as a Page Group in Sitefinity.

When you request an extensionless URL, you get HTTP 404. This means IIS receives the request but it serves the page configured for HTTP 404. It does not send the request to ASP.NET ISAPI. So, if you can forward all HTTP 404 to ASP.NET, you can serve extensionless URLs. In order to forward HTTP to ASP.NET ISAPI, you need to configure IIS to redirect to some *.aspx* extension on HTTP 404. Follow the steps below to make Sitefinity handle the request to **sf404.aspx** page and rewrite the path to the required URL.

IIS 5.x

1. Click **All Programs** > **Administrative Tools** > **Internet Information Services (IIS) Manager**.
2. Expand the tree on the left until you see **Web Sites > Default Web Site**.
3. Expand the **Default Web Site** folder.
4. Right-click your project virtual folder and select **Properties**.
5. On the *Custom Errors* tab, select **HTTP error 404**.

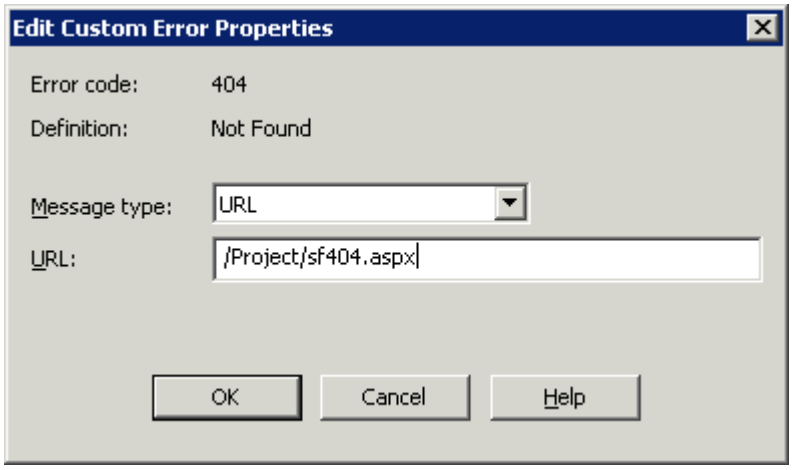
6. Click **Edit Properties**.
7. From the *Message Type* list, choose **URL**.
8. In the *URL* field, type the path to **sf404.aspx** in your project:



9. Click **OK**.

IIS 6.x

1. Click **All Programs** > **Administrative Tools** > **Internet Information Services (IIS) Manager**.
2. Expand the tree on the left until you see **Web Sites > Default Web Site**.
3. Expand the **Default Web Site** folder.
4. Right-click your project virtual folder and select **Properties**.
5. On the *Custom Errors* tab, select **HTTP error 404**.
6. Click **Edit**.
7. From the *Message Type* list, choose **URL**.
8. In the *URL* field, type the path to **sf404.aspx** in your project:

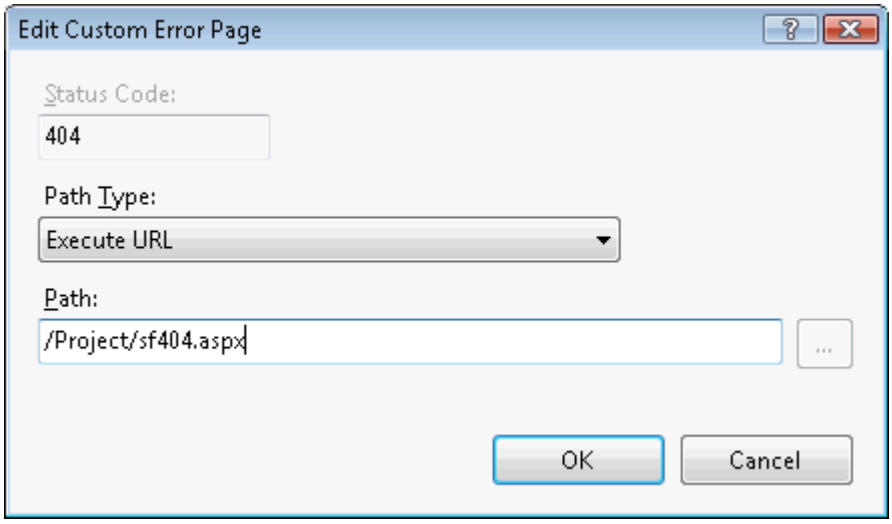


9. Click **OK**.

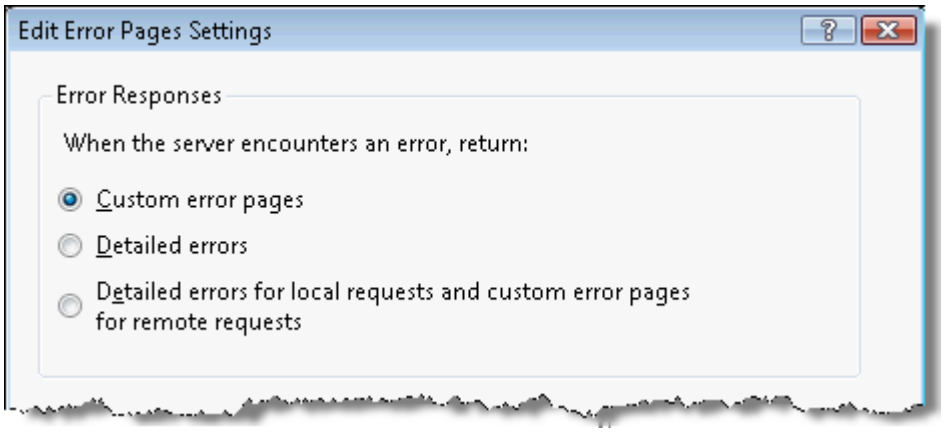
IIS 7.0

Note: The settings below should be applied when running the server in *Classic Pipeline Mode* and are not required in *Integrate Pipeline Mode*.

1. Click **All Programs** > **Control Panel** > **Administrative Tools** >**Internet Information Services (IIS) Manager**.
2. Expand the tree on the left until you see **Web Sites > Default Web Site**.
3. Expand the **Default Web Site** folder.
4. Select your Web site and in the right pane, IIS section, select **Error Pages**.
5. In the right pane, click **Edit**.
6. Change the *Path Type* to **Execute URL** and type the path to **sf404.aspx** in your project:



7. Click Edit Feature Settings.
8. Change the default error response to **Custom error pages**:


Edit Error Pages Settings
Error Responses
When the server encounters an error, return:
Custom error pages
Detailed errors
Detailed errors for local requests and custom error pages for remote requests

9. Click OK.

Wildcard Application Mappings

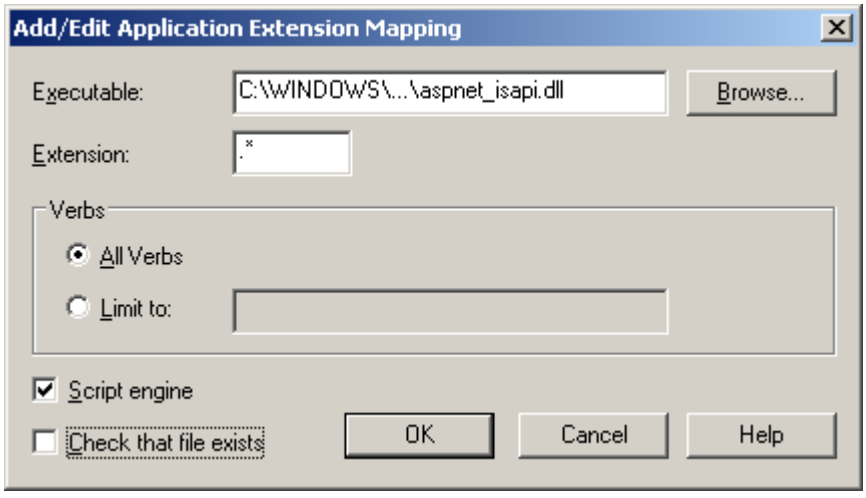
Sitefinity supports URLs without extensions if you set wildcard application mappings in IIS.

Apart from setting wildcard application mappings, Sitefinity supports a better approach for URLs with no extensions. As wildcard mapping makes each and every request go through ASP.NET 2.0 ISAPI handler (including URLs with *.gif, .css, .js, .html*, etc.) and this inevitably worsens the performance, we would recommend the approach described in the Extensionless URLs topic.

To set up Wildcard Application Mappings, follow these steps:

IIS 5.x

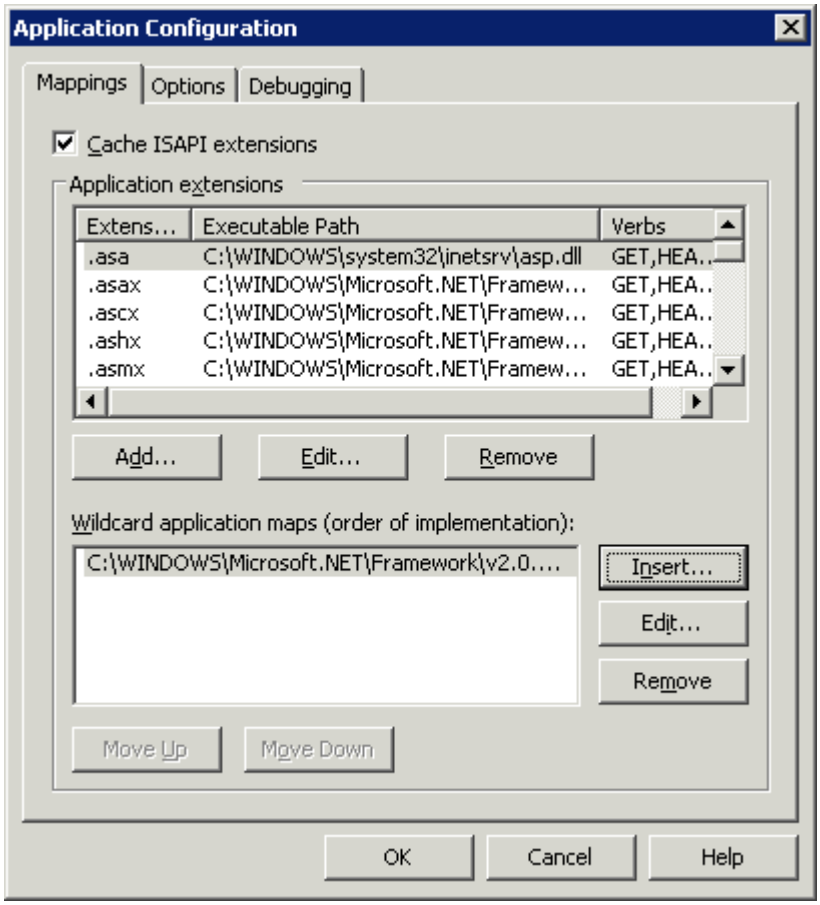
1. Click **All Programs** > **Administrative Tools** > **Internet Information Services (IIS) Manager**.
2. Expand the tree on the left until you see **Web Sites > Default Web Site**.
3. Expand the **Default Web Site** folder.
4. Right-click your project virtual folder and select **Properties**.
5. On the *Virtual Directory* tab, click **Configuration** to open the *Application Configuration* dialog.
6. Click **Add** to open the *Add/Edit Application Extension Mapping* dialog.
7. Browse to select the **c:\windows\microsoft.net\framework\v2.0.50727\aspnet_isapi.dll** file for the value of the *Executable* field.
8. In the *Extension* field, type " **.*** " to specify all kinds of extensions.
9. Select the **All verbs** checkbox.
10. Clear the **Check that file exists** checkbox.



11. Click **OK** to close the *Add/Edit Application Extension Mapping* dialog.
12. Click **OK** to close the *Application Configuration* dialog.

IIS 6.x

1. Click **All Programs** > **Administrative Tools** > **Internet Information Services (IIS) Manager**.
2. Expand the tree on the left until you see **Web Sites**.
3. Expand the **Web Sites** folder.
4. Right-click your Web site to select **Properties**.
5. Click **Configuration**.
6. Click **Insert...** to open the Add*/Edit Application Extension Mapping* dialog.
7. Browse to select the **c:\windows\microsoft.net\framework\v2.0.50727\aspnet_isapi.dll** file for the value of the *Executable* field.
8. Clear the **Verify that file exists** checkbox.



9. Click **OK** to close the *Add/Edit Application Extension Mapping* dialog.
10. Click **OK** to close the *Application Configuration* dialog.

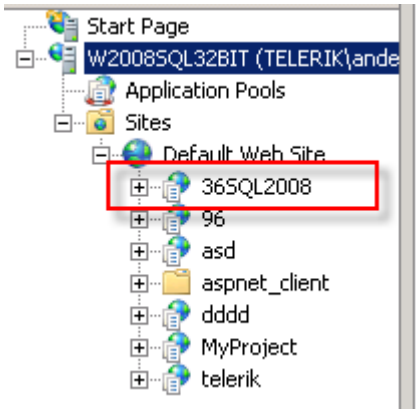
IIS 7

1. Click **All Programs** > **Control Panel** > **Administrative Tools** >**Internet Information Services (IIS) Manager**.

If you are using Windows Vista, follow these steps:

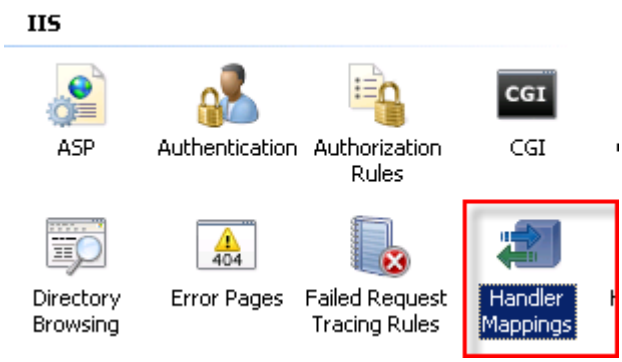
1. Expand the sites folder on the left until you see **Web Sites > Default Web Site**.
2. Then, expand the **Default Web Site** folder
3. Select your website.

If you are using Windows Server 2008, expand the folders as shown below:

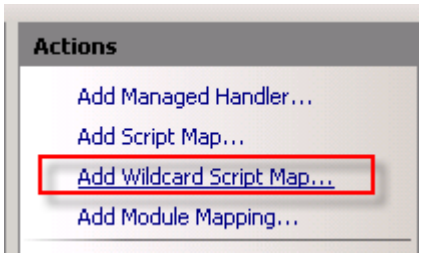


Please note that the W2008SQL32Bit icon shall be named differently on your machine, but the idea is the same.

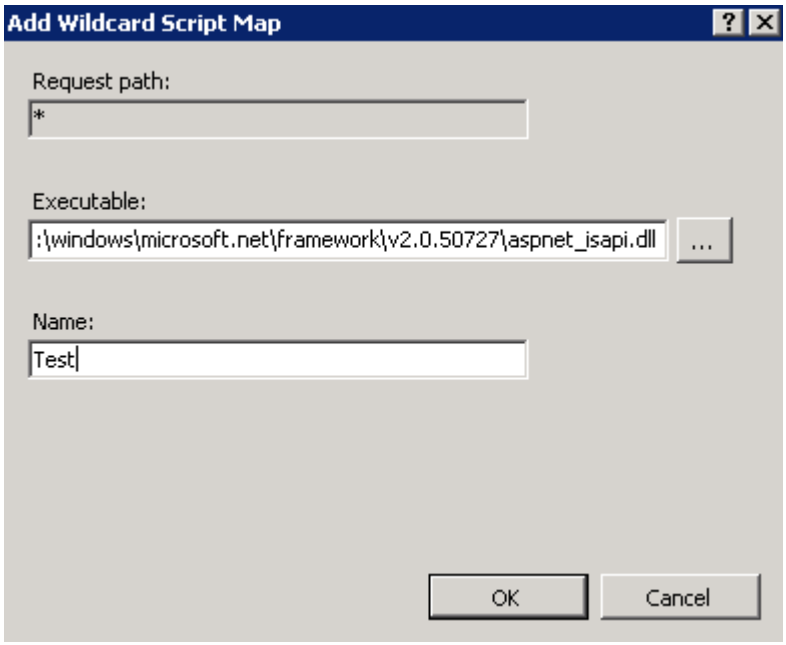
2. Click on the website, then on Handler Mappings:



3. On the right hand side of the screen, click Add Wildcard Script Map:



4. On the dialog that appears, browse to select the **c:\windows\microsoft.net\framework\v2.0.50727\aspnet_isapi.dll**
5. Give the application mapping as name:



6. Click OK
7. On the next dialog, click yes

For more information, please view this article.

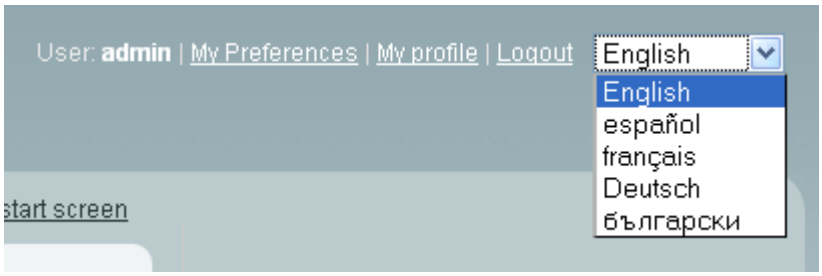
15. Configuring Localization

Overview

The Sitefinity Standard Edition supports multilingual sites and each one needs to have a default language. Although you can only have one default language per Web site, Sitefinity supports an unlimited number of language versions of a website. Localization works on site, page and the module level and uses the same two letter abbreviations from the CultureInfo class.

Site Localization

Sitefinity allows end users to pick the site's language:



Users can also choose which version of a page to edit by following these steps:

1. Login to Sitefinity
2. Click on Pages
3. Choose the appropriate language:

To configure localization for pages, follow these steps:

1. Find the `<localization>` section in the application web.config file.

2. First, you should set the **persistenceMode** attribute to either `"QueryString"` or `"PathPrefix"` to define the way URLs will be created:

```
<localization defaultProvider="Sitefinity"
persistenceMode="PathPrefix"
defaultCulture="en" cultures="en, fr">
```

Notice that the default culture is set to English. If you would like to have another default language, set the default culture property to the language's two letter prefix:

```
<localization defaultProvider="Sitefinity"
persistenceMode="PathPrefix"
defaultCulture="es" cultures="en, fr, es, de, bg">
```

3. Save the web.config file and you will see the language selector in the top right corner of the screen. The order of languages in the dropdown is the same as set for the value of the cultures attribute.

In the above example, setting the **defaultCulture** attribute to **es** does not ensure that the selected language in the dropdown (and hence the language version of the page that opens) is always Spanish. This depends on the browser settings: the default language set in the client browser definition overrides the **defaultCulture** definition in the application web.config.

To force a specific culture, independent from the client browser settings and locale, do the following:

1. Find the localization element in the application web.config.
2. Add the **autoSetClientLanguage** attribute and set it to **false**:

```
<localization defaultProvider="Sitefinity"
autoSetClientLanguage="False"
persistenceMode="PathPrefix"
```

Mapping Domain Name and Extension to Culture

To Map a Domain Name to Culture, follow these steps:

1. Find the `<localization>` section in the application web.config file.

2. Set the **persistenceMode** attribute to `"DomainName"`.

3. Create a new section which contains the domains and the cultures to which they are mapped, surround it with opening and closing tags: `"<cultureMappings>"`, `</cultureMappings>"`.

4. Insert a line for each domain you want to map, for example:
`<add key="www.mydomain.com" culture="en" />,`
where `"key"` is the domain name you want to map, and `"culture"` is the culture to which you want to map it.

To illustrate, this is what the web.config file will contain after the update:

```
<localization defaultProvider="Sitefinity"
persistenceMode="DomainName" defaultCulture="en"
cultures="en, de, fr">

 <providers>

   <clear/>

          <add name="Sitefinity"
          type="Telerik.Localization.Data.DefaultProvider,
          Telerik.Localization.Data"
          connectionStringName="DefaultConnection"/>

 </providers>

 <cultureMappings>

   <add key="www.mydomain.com" culture="en" />

   <add key="www.mydomain-de.com" culture="de" />

   <add key="www.mydomain.fr" culture="fr" />

 </cultureMappings>

</localization>
```

5. Save the web.config file.

To Map a Domain Extension to Culture, follow these steps:

1. Find the `<localization>` section in the application web.config file.

2. Set the **persistenceMode** attribute to `"DomainExtension"`.

3. Create a new section which contains the domains and the cultures to which they are mapped, surround it with opening and closing tags:`"<cultureMappings>"`, `</cultureMappings>"`.

4. For each domain you want to map insert a line, for example:
   `<add key="com" culture="en" />,`
   where `"key"` is the domain extension you want to map, and `"culture"` is the culture to which you want to map it.

To illustrate, this is what the web.config file will contain after the update:

```
<localization defaultProvider="Sitefinity"
persistenceMode="DomainExtension" defaultCulture="en"
cultures="en, fr, de, bg">

 <providers>

   <clear/>

          <add name="Sitefinity"
          type="Telerik.Localization.Data.DefaultProvider,
          Telerik.Localization.Data"
          connectionStringName="DefaultConnection"/>

 </providers>

 <cultureMappings>

   <add key="com" culture="en" />

   <add key="co.uk" culture="en" />

   <add key="fr" culture="fr" />

 </cultureMappings>

</localization>
```

Please, note that Sitefinity maps automatically a domain extension to a culture when there is a match between the two. You do not need to set the mapping explicitly in such cases.

5. Save the web.config file.

Module Localization

You can localize the following modules:

- Generic Content
- News
- Blogs
- Events

To create different language versions of a module, follow these steps:

1. Find the <cmsEngine> section in the application web.config file and set the **allowLocalization** attribute to **true**.

```
<cmsEngine defaultProvider="MODULE_NAME">
<providers>
<clear/>
<add name="Generic_Content"
  visible="True"
  defaultMetaField="Name"
  securityProviderName=""
  allowLocalization="True"
          ...
```

   Setting this enables you to create versions of the content items for all the site cultures and display them by switching the languages in the selector on the live web site.

2. Find the <metaFields> section and set the **localizable** attribute to true for all fields that you want to localize.

   To make the *Description* field of the Generic Content module localizable, for example, add the text in red:

```
<add key="Generic_Content.Description" valueType="LongText"
visible="True" searchable="False"
localizable="True"
sortable="True"
defaultValue="Add description here"/>
```

Here is the end result in English:

Here is the end result in German:

By localizing fields, you ensure that field can have a foreign language equivalent. In the example above, the content's title is not localizable, so when you change to the French version, for example, the title will still say language. The content's description field, however, will have a French language equivalent.

The fields that are used to create the URL, for example *Name* for the Generic Content module, should not be localized:

```
<add providerName="Blogs"
publicationDateField="Publication_Date"
urlRewriteFormat="[Publication_Date]/[Title].aspx"
```

If you need to make these kinds of fields localizable, you can do either of the following:

1. Use **ID** for URL rewriting:

   ```
   urlRewriteFormat="[Publication_Date]/{ID}.aspx"
   ```

2. Use **GUID** for URL rewriting:

   ```
   urlRewriteFormat="[Publication_Date]/{GUID}.aspx"
   ```

16. Configuring Workflow and Versioning

Sitefinity supports workflow on the module and the pages level.

Page Level

To enable workflow on the page level, follow these steps:

1. Set the allow page workflow attribute to true in the Web.config:

```
<add connectionStringName="DefaultConnection"
allowPageHistory="true"
          allowPageWorkflow="true"
cachingProviderName="ASPNET" name="Sitefinity"
          type="Telerik.Cms.Data.DefaultProvider,
Telerik.Cms.Data" />
```

2. Save the Web.config

Module Level

To configure workflow at the module level, follow these steps:

1. Locate this line of code in your Web.config:

```
<cmsEngine defaultProvider="Generic_Content">
```

2. Find the module's provider (The Generic Content module is given as an example):

```
<add name="Generic_Content"
urlRewriteFormat="[Publication_Date]/[Name].aspx"
urlDateTimeFormat="yy-MM-dd" urlWhitespaceChar="_"
visible="True" defaultMetaField="Name"
securityProviderName="" allowLocalization="True"
allowVersioning="True" allowWorkflow="True"
allowComments="false" commentsModeration="true"
versioningProviderName=""
connectionStringName="GenericContentConnection"
type="Telerik.Cms.Engine.Data.Providers.DefaultProvider,
Telerik.Cms.Engine.Data" />
```

3. Save the Web.config

Page History

This feature is not available in the Sitefinity Community Edition.
Sitefinity stores the history of content modifications. The site administrator can easily track

the modifications, the user identity and the time of the changes. Each time some content is modified, the changes are saved as a new version of the original content. The original content is saved in the database and can easily be restored.

By default, page history is enabled. To disable it, open the project web.config file, find this line and set the **allowPageHistory** attribute to false:

```
<add connectionStringName="DefaultConnection"
allowPageHistory="false"
allowPageWorkflow="false" name="Sitefinity"
type="Telerik.Cms.Data.DefaultProvider, Telerik.Cms.Data" />
```

To preview and roll back to previous versions of a page:

1. Go to **Pages** >**Site Map**.
2. Click to select the page in the site map and go to the **History** tab.
3. Click **View** to open a preview of an older version of the page.
4. Click **Rollback** to substitute the current template with an older version.

Module History

Sitefinity stores all versions of items created within the Generic Content, News and Blogs modules. Each time some content is modified, the changes are saved as a new version of the original content. The original content is saved in the database and can easily be restored. The site administrator can easily track those modifications, the user identity and the time of the changes.

By default, module history is enabled. To disable it, open the application web.config file and find this section:

```
<cmsEngine defaultProvider="Generic_Content">.
```

In the <add> element for the respective module, find the **allowVersioning** attribute and set it to **False**. This is what it should look like for the News module:

```
<add name="News"
   defaultMetaField="Title"
   visible="False"
   securityProviderName=""
   allowVersioning="False"
...
```

17. Troubleshooting

Although a more complete listing of common errors are listed in our Sitefinity Troubleshooting Guide, a few commons ones are listed in this section.

Login Failed for User

This error occurs because your database user lacks db_owner privileges on the Sitefinity database. When using SQL Server connection strings with Windows Authentication in an ASP.NET web application, the web application is trying to connect to the database with the account that runs the ASPNET working process (this is the *ASPNET* account in Windows XP and Windows Server 2003. For Windows Server 2008 and Windows Vista, this is the *NETWORK SERVICES* account). In this case, you should add the account to your database as a db_owner.

The above will work only if the database and the Web site are on the same machine.

Another solution is to impersonate the ASPNET account to a domain user with access to the database:

```
<identity impersonate="true" userName="<domain>\<user>"
password="<password>" />
```

For more information about impersonation, please refer to this article:
ASP.NET Settings Schema

You are Running a Trial Version of Sitefinity

This error occurs because the license key file has been incorrectly applied or created. When you create the key, make sure it is domain.com. Do not include the http://www.domain.com/ as your whole key. For more info, please review this article.

Unknown server tag 'sfBlogDesignSettings:BehaviorSetting' warning while compiling/building your project

To resolve, please open:

[YourProject]\Sitefinity\Admin\ControlTemplates\Blogs\Design\BlogPostsControlDesigner.ascx

and change sfBlogDesignSettings:BehaviorSetting to sfBlogDesignSettings:BlogsBehaviorSetting.

"Unable to load one or more of the requested types. Retrieve the LoaderExceptionsProperty for more information."

Please ensure that you performed step 8 of the upgrading process.